# **Appendices to**

# Risks of Diazinon Use to the Federally Listed California Red-Legged Frog

(Rana aurora draytonii)

**Pesticide Effects Determination** 

Appendix A. ECOTOX Open Literature Reviews	164
Appendix B. Example output file from PRZM/EXAMS modeling (2 aerial applications to	
lettuce)	195
Appendix C. Example output from TerrPlant v.1.2.2 model (single aerial application to	
lettuce)	198
Appendix D. Example output from T-REX v.1.3.1 model (single application to lettuce)	199
Appendix E. Output from T-HERPS v.1.0 model (single application to fig)	203
Appendix F. Sensitivity Distribution Data	205
Appendix G. The Risk Quotient Method and Levels of Concern	211
Appendix H. List of citations accepted and rejected by ECOTOX criteria	213
Appendix I. Individual Effect Analysis	368
Appendix J. Use closure memo from SRRD concerning diazinon uses	374
Appendix K. Detailed analysis of final diazinon action area and overlap of action area with	ì
CRLF core areas and critical habitat	378
Appendix L. Pesticide Products Formulated with Diazinon and Other Pesticide Active	
Ingredients	411

# **Appendix A. ECOTOX Open Literature Reviews**

A total of 2,335 references were identified for diazinon in a search of ECOTOX conducted in September 2006 Of these, approximately 27 studies contained toxicity endpoints that were more sensitive than those listed in the 2002 IRED. Reprints for each of these studies were reviewed to determine whether the studies could be used either quantitatively or qualitatively to describe the potential effects of diazinon on aquatic organisms. Below is a brief description of each of the studies along with any uncertainties that were identified during the review. The bolded number preceding each of the citations represents the ECOTOX reference number.

**ECOTOX Record Number and Citation: 18129** Werner, I. and R. Nagel. 1997. Stress Proteins HSP60 and HSP70 in three Species of Amphipods Exposed to Cadmium, Diazinon, Dieldrin and Fluoranthene. Environmental Toxicology and Chemistry. 16(11): 2393 – 2403.

Purpose of Review (DP Barcode or Litigation): Litigation

Date of Review: March 2, 2007

Summary of Study Findings: Article reports 24-hr LC<sub>50</sub> value determined as part of a range finding test for measuring response of heat shock proteins. Diazinon concentrations determined using immunoassay (EnviroGard test kit; Millipore, Bedford, MA). Three replicate test containers each containing 150 mL. Control and solvent controls run; no solvent used for diazinon. Ten test species (freshwater *Hyalella azteca* and the marine *Rhepoxynius abronius*); 20 estuarine *Ampelisca abdita* because of smaller size. Filtered (0.22  $\mu$ m) dilution water obtained from Bodega and San Francisco bays for saltwater and freswater studies. Dissolved oxygen 6.9 – 9.0 mg/L; pH ranged from 7.7 to 8.4.

	24-hr	48-hr
H. azteca	$30  \mu g/L$	19 μg/L
A abdita	21 μg/L	10 μg/L
R. abronius	$9.2 \mu g/L$	

Remainder of study examines heat shock protein responses; the relevancy of these data to assessment endpoints is not determined quantitatively.

**Description of Use in Document (QUAL, QUAN, INV):** Qualitative

\*

**ECOTOX Record Number and Citation: 15687** Sancho, E., M. D. Ferrando, M. Gamon and E. Andreu-Moliner. 1994. Uptake and Clearance of Diazinon in Different Tissues of the European Eel (*Anguilla anguilla* L.) Biomedical and Environmental Sciences 7: 41 – 49.

Purpose of Review (DP Barcode or Litigation): Litigation

Date of Review: March 2, 2007

**Summary of Study Findings:** Study is deemed to be of low utility:

Wild-caught eels

Test animals did not respond to food and therefore may have been fasted for 2 weeks before the study and during the 96-hr study.

Tap water is used.

No mention is made whether concentrations are measured therefore, the concentrations are presumed to be nominal; the accumulation study did measure concentrations though.

Aquaria are aerated.

24-hr 48-hr 72-hr 96-hr A. anguilla 164 μg/L 114 μg/L 92 μg/L 85 μg/L

# **Description of Use in Document (QUAL, QUAN, INV):** Qualitative

**Rationale for Use**: Eels are not the most sensitive speices tested with diazinon. The study provides useful information for qualitative species sensitivity distribution.

**Limitations of Study:** The fact that the test animals were essentially fasted for at least 2 weeks prior to test initiation raises serious concerns regarding the utility of these data. Extensive fasting would likely mobilize the animal's fat reserves. Given the uncertain chemical exposure history for the eels, it is uncertain what effect the fasting may have on the study's ability to detect treatment effects.

Primary Reviewer: Thomas Steeger, Ph.D., Senior Biologist

\*

**ECOTOX Record Number and Citation: 1055** Ferrando, M. D., E. Sancho, and E. Andreu-Moliner. 1991. Comparative Acute Toxicities of Selected Pesticides to *Anguilla anguilla*. Journal of Environmental Science and Health B26: 491 – 498.

**Purpose of Review (DP Barcode or Litigation):** Litigation

Date of Review: March 2, 2007

**Summary of Study Findings:** Wild-caught eels (Albufera Lake, Valencia, Spain)

Acclimatized for 2 weeks; however, animals did not respond to feeding attempts.

Glass aquaria (40 L) containing 35 L test solution; 4 replicates with10 fish per replicate per treatment. (Diazinon 92% a.i.) Controls run. No mention of whether concentrations were measured.

24-hr 48-hr 72-hr 96-hr A. anguilla 160 μg/L 110 μg/L 90μg/L 80μg/L

The results of this study are strikingly similar to results reported in the 1994 publication by Sancho. It is unclear whether this is the same study.

### Description of Use in Document (QUAL, QUAN, INV): Qualitative

**Rationale for Use**: Eels are not the most sensitive speices tested with diazinon. The study provides useful information for qualitative species sensitivity distribution.

**Limitations of Study:** The fact that the test animals were essentially fasted for at least 2 weeks prior to test initiation raises serious concerns regarding the utility of these data. Extensive fasting would likely mobilize the animal's fat reserves. Given the uncertain chemical exposure history for the eels, it is uncertain what effect the fasting may have on the study's ability to detect treatment effects.

**ECOTOX Record Number and Citation: 16043** Norberg-King, T. J. 1987. Toxicity Data on Diazinon, Aniline and 2, 4-Dimethylphenol. Memo to Charles Stephan, ERL Duluth from the U.S. EPA Environmental Research Laboratory in Duluth.

Purpose of Review (DP Barcode or Litigation): Litigation

Date of Review: March 2, 2007

**Summary of Study Findings:** Summary of diazinon (85% ai) acute (48-hr) toxicity tests with *Ceriodaphnia dubia* (in-house culture; <24 hrs old) using water from various sources: Lake Superior water (LSW), reconstituted water (RCW), diluted mineral artificial water (DMW) and Lake Superior culture water (water enriched by previous goldfish use). Daphnia in most of the studies were fed using green algae *Pseudokirchneriella subcapitata* (formerly *Selenastrum capricornutum*) and yeast concentrate. Test volumes of 12.5 ml in replicate with two replicates per test concentration. Diazinon dissolved in methanol

	48-hr
DMV	0.57 μg/L
LSW	0.66 µg/L
RCW	0.57 μg/L
LSCW	$>1.0 \mu g/L$

**Limitations of Study:** Concentration of methanol is not reported. It is unclear whether the control is a solvent control or neat control. Some studies had concentrations measured in the treatment units while others measured diazinon in the stock solutions.

A 7-day chronic toxicity study is also reported using one daphnid (<6-hr old) in 15 ml of test solution (DMW) with 10 reps per treatment concentration; solutions renewed daily and all concentrations were measured.

NOEC =  $0.22 \,\mu\text{g/L}$ ; LOEC =  $0.34 \,\mu\text{g/L}$  (mean number of young/female).

**Description of Use in Document**: Qualitative

**Rationale for Use:** Study provides useful information on the sensitivity of freshwater nonvascular aquatic plants to diazinon.

Primary Reviewer: Thomas Steeger, Ph.D., Senior Scientist

\*

**ECOTOX Record Number and Citation: 16547** Oh, H. S., S. K. Lee, Y. H. Kim and J. K. Roh. 1991. Mechanism of Selective Toxicity of Diazinon to Killifish (*Oryzias latipes*) and Loach (*Misgurnus anguillicaudatus*). Aquatic Toxicology and Risk Assessment: Fourteenth Volume, ASTM STP 124. M. A. Mayes and M G. Barron (editors), American Society for Testing and Materials. Pp 343 – 353.

Purpose of Review (DP Barcode or Litigation): Litigation

**Date of Review:** March 2, 2007

Summary of Study Findings: Study reports a 96-hr LC<sub>50</sub> value for killifish (LC<sub>50</sub>= 3,910  $\mu$ g/L) and loach (LC<sub>50</sub>=270  $\mu$ g/L); however, the methods section does not indicate that any such test was undertaken.

**Description of Use in Document**: Qualitative

**Rationale for Use:** Study provides useful information on the sensitivity of fish to diazinon.

**Primary Reviewer**: Thomas Steeger, Ph.D., Senior Scientist

\*

**ECOTOX Record Number and Citation: 821** Ankley, G. T., J. R. Dierkes, D. A. Jensen, and G. S. Peterson. 1991. Piperonyl Butoxide as a Tool in Aquatic Toxicologicl Research with Organophosphate Insecticides. Ecotoxicology and Environmental Safety 21 (3): 266 – 274.

Purpose of Review (DP Barcode or Litigation): Litigation

Date of Review: March 2, 2007

**Summary of Study Findings:** *Ceriodaphnia dubia, Daphnia magna* and *Daphnia pulex* obtained from in-house cultures; all test organisms ≤48 hrs old. Five organisms per test replicate, two replicates per treatment with 10 mL per treatment container. Tests conducted at 25oC; control used 10% mineral water (Perrier, Vergeze, France) diluted in high purity water from a Millipore system.

48-hr LC<sub>50</sub>
C. dubia 0.50 μg/L
D. magna 0.80 μg/L
D. pulex 0.65 μg/L

**Description of Use in Document**: Qualitative

**Rationale for Use:** Study provides useful information on the sensitivity of freshwater invertebrates to diazinon.

**Limitations of Study:** Specific purity of diazinon is not provided; report simply cites purities ranging from 95 to 99%. Test concentrations are nominal. Methanol is used as a co-solvent; report states that concentration did not exceed 1.5% and this is "well below" the 48-hr LC<sub>50</sub> for methanol. However, no solvent control is run and it is unclear why the control contained 10% mineral water.

Primary Reviewer: Thomas Steeger, Ph.D., Senior Scientist

\*

**ECOTOX Record Number and Citation: 4009** Fernández-Caladerrey, A., M. D. Ferrando and E. Andreu-Moliner. 1994. Effect of Sublethal Concentrations of Pesticides on the Feeding Behavior of *Daphnia magna*. Ecotoxicology and Environmental Safety 27: 82 – 89.

Purpose of Review (DP Barcode or Litigation): Litigation

**Date of Review:** March 2, 2007

**Summary of Study Findings:** *Daphnia magna* from the Laboratory for Biological Research in Aquatic Pollution (Gent, Belgium) and cultured in laboratory. Diazinon 92% ai was dissolved in acetone. Study procedure according to EEC standard. Six concentrations plus a control acetone (0.06 mg/L) consisting of 3 replicates with 10 neonates (<24 hr old) placed in 30 ml glass beaker containing 25 ml test solution. Animals were fasted and study was conducted under static conditions.

24-hr LC<sub>50</sub>

D. magna 0.9 μg/L diazinon

0.62 mg/L endosulfan

**Description of Use in Document**: Qualitative

**Rationale for Use:** Study provides useful information on the sensitivity of freshwater invertebrates to diazinon and endosulfan.

Primary Reviewer: Thomas Steeger, Ph.D., Senior Scientist

\*

**ECOTOX Record Number and Citation: 5311** Dennis, W. H., A. B. Rosencrance and W. F. Randall. 1980. Acid Hydrolysis of Military Standard Formulations of Diazinon. Journal of Environmental Science Health, Part B. Pestic Food Contam. Acric. Wastes, B15(1): 47 – 60.

Purpose of Review (DP Barcode or Litigation): Litigation

Date of Review: March 2, 2007

Summary of Study Findings: Young-of-the-year bluegill sunfish (*Lepomis macrochirus*; 0.8 g) from an unspecified source were exposed to diazinon (88.1% ai) for 96 hrs in a static system. Five-gallon glass jars containing 15 L treatment solution and contained 10 fish per rep and three reps per treatment. Mortality and treatment concentrations were measured every 24 hours. Well water used in study with alkalinity of 138 mg/L as  $CaCO_3$ .; temperature  $20 \pm 10C$ 

96-hr LC<sub>50</sub>

Bluegill 120 µg a.i./L

**Description of Use in Document**: Qualitative

**Rationale for Use:** Study provides useful information on the sensitivity of freswater fish to diazinon.

Primary Reviewer: Thomas Steeger, Ph.D., Senior Scientist

**Limitations of Study:** In this study technical grade diazinon is more toxic than the formulated products tested (Diazinon EC; LC50 530 µg a.i/L

\*

**ECOTOX Record Number and Citation: 885** Sanders, H. O. 1969. Toxicity of Pesticides to the Crustacean *Gammarus lacustris*. Technical Papers of the Bureau of Sport Fisheries and Wildlife. U. S. Department of the Interior, Fish and Wildlife Service, Bureau of Sport Fisheries and Wildlife, Washington DC.

Purpose of Review (DP Barcode or Litigation): Litigation

Date of Review: March 2, 2007

**Summary of Study Findings:** Laboratory stock cultured from scuds (Gammarus lacustris) collected at pond near the Fish-Pesticide Research Laboratory (Denver, CO). Reconstituted water (pH = 7.1; alkalinity = 30 ppm). Glass aquariums (5.7 L) containing 4 L of tests water. Ten 2-month old scuds placed in each aquarium; then 2 hours later, test material was added to aquaria. Test conducted at 21oC (70oF) Appears that only neat control and not a solvent (ethanol) control was run. Procedure indicates that emulsifiable concentrates and wettable powders were dissolved in deionized water while technical grade pesticides were dissolved in ethanol; however the article does not discuss what form the diazinon was in. Ethanol concentration never exceeded 1 mL per liter; however, 1 ml/l is a very high concentration of cosolvent. The endpoints reported in the study are no more sensitive than what is already reported for aquatic invertebrates..

24-hr 48-hr 96-hr Scud 800 μg/L 500 μg/L 200 μg/L

**Description of Use in Document**: Qualitative

Rationale for Use: Study provides useful information on the sensitivity of freshwater invertebrates to diazinon.

Primary Reviewer: Thomas Steeger, Ph.D., Senior Scientist

\*

**ECOTOX Record Number and Citation: 18190** Bailey, H. C., J. L. Miller, M. J. Miller, L. C. Wiborg, L. Deanovic and T. Shed. 1997. Joint Acute Toxicity of Diazinon and Chlorpyrifos to *Ceriodaphnia dubia*. Journal of Environmental Toxicology and Chemistry. 16(11): 2304-2308.

**Purpose of Review (DP Barcode or Litigation):** Litigation

**Date of Review:** March 2, 2007

Summary of Study Findings: Diazinon (99% ai) dissolved in 100% methanol. Dilution water obtained from everse osmosis-treated well water brought to moderately hard standard. Nominal test concentrations of 0.05, 0.10, 0.20, 0.40 and 0.80  $\mu$ g/L. *Ceriodaphnia dubia* (<24 hr old) obtained from in-house laboratory culture. Exposures conducted in 20-l glass scintillation vials containing 18 ml of solution. Four replicates containing five neonates in each used at each of the five test concentrations; studies were static tests as 25 + 1oC with a 16 hr day and 8 hr night photoperiod. Initial concentrations of diazinon determined through ELISA. Animals fasted through study period.

	24-hr	48-hr	72-hr	96-hr
Ceriodaphnia	$0.75~\mu g/L$	$0.48~\mu g/L$	$0.40~\mu g/L$	$0.35 \mu g/L$
	$0.58 \mu g/L$	$0.58 \mu g/L$	$0.35 \mu g/L$	$0.32 \mu g/L$

**Description of Use in Document**: Qualitative

Rationale for Use: Study provides useful information on the sensitivity of fish to diazinon.

**Limitations of Study:** This study has a relatively good methodology; however, diazinon was dissolved in methanol and the final concentration of methanol is not reported. Also, a solvent control is not reported.

Primary Reviewer: Thomas Steeger, Ph.D., Senior Scientist

\*

**ECOTOX Record Number and Citation: 19300** Harris, M. L., C. A. Bishop, J. Struger, B. Ripley and J. P. Bogart. 1998. The Functional Integrity of Northern Leopard Frog (*Rana pipiens*) and Green Frog (*Rana clamitans*) Populations in Orchard Wetland. II. Effects of Pesticides and Eutrophic Conditions on Early Life Stage Development. Environmental Toxicology and Chemistry 17(7): 1351 – 1363.

Purpose of Review (DP Barcode or Litigation): Litigation

Date of Review: March 2, 2007

**Summary of Study Findings:** Leopard frog adults obtained from R. Elinson (Hazen Frog Farms, Alburg, VT) and from wild-caught adults. Green frog adults were wild-caught. Animals were induced with  $0.1~\mu g$  luteninzing hormone-releasing hormone or with whole frog or toad pituitary extracts.

Laboratory assays conducted in 250-ml beakers maintained at  $19.5 \pm 1.5$ oC for leopard frogs and  $19.5 \pm 0.6$  and  $18.6 \pm 0.6$ oC for green frog assays. Photoperiod of 12:12 hr light:dark maintained. Beakers contained 10 individuals with 2 or 3 replicates per treatment. Tests initiatated at 9 hours post-fertilization (Gosner developmental stage 8/9). Larvae fed boilded lettuce (0.5 g) every other day; rations were increased to 1 g after approximately 1 week. Tests continued for 2 weeks (1993) for both species and for 3 weeks (1994) with green frogs. At test temination, survival, hatching success and tadpole growth rates determined.

Green frogs (Gosner stage 8 embryos through stage 25 tadpoles) were also continuously exposed for 13-day static renewal (4 day) toxicity tests to Basudin® 500 EC and technical grade diazinon. After 4 days, treatment solutions were replaced with reference pond water and embryos hatched and began feeding in "uncontaminated" conditions. After 7.5 day in reference water (with renewal every second day) treatment solutions were reintroducted. Treatment concentrations of Basudin® 500EC were 0.001, 0.01, 0.1, 1.0, 10 and 25  $\mu$ g/L; treatment concentrations for technical grade diazinon were: 0.5, 5 and 50  $\mu$ g/L. Results presented below are for technical grade diazinon; formulated end-product appears to be less toxic than the technical grade.

 $\begin{array}{ccc} & 96\text{-hr }LC_{50} & 16\text{-day }LC_{50} \\ \text{Green Frog} & > 50\,\mu\text{g/L} & 5\,\mu\text{g/L} \end{array}$ 

**Description of Use in Document**: Qualitative

**Rationale for Use:** Study provides useful information on the sensitivity of aquatic-phase amphibians to diazinon.

**Limitations of Study:** Laboratory studies appeared to be conducted using reference pond water; however, background pesticide residues were not analyzed at the time of the study. It is also unclear whether controls were run. The 16-day study was with feeding.

Primary Reviewer: Thomas Steeger, Ph.D., Senior Scientist

\*

**ECOTOX Record Number and Citation:** 3664 Culley, D. D. and D. E. Ferguson. 1969. Patterns of Insecticide Resistance in the Mosquitofish, *Gambusia affinis*. J. Fish. Res. Board Can 26(9): 2395-2401.

Purpose of Review (DP Barcode or Litigation): Litigation

**Date of Review:** March 2, 2007

**Summary of Study Findings:** Wild-caught fish from a drainage canal near Belzoni, MS, acclimatized for 1-5 days. Fish apparently had fungal infection prior to use and required treatment with malachite green and noniodized table salt. Fish fasted 24-hr prior to testing. Diazinon dissolved in acetone. Test containers were 1-gal jars containing 2.5 1 of treatment solution in replicate with 6 fish in each jar (approximately 0.5 g fish/liter).

**Limitations of Study:** None of the pesticides tested appear to be diazinon or its degradate (diazoxon).

Primary Reviewer: Thomas Steeger, Ph.D., Senior Scientist

**ECOTOX Record Number(s) and Citation: 6221**.and **11219** Sancho, E., M. D. Ferrando, E. Andreau and M. Gamon. 1992. Acute Toxicity, Uptake and Clearance of Diazinon by the European Eel, *Anguilla anguilla* (L). J. Envion. Sci. Health. B27(2): 209 – 221.

Purpose of Review (DP Barcode or Litigation): Litigation

Date of Review: March 2, 2007

Summary of Study Findings: Wild-caught eels (20 - 30 g; 16 - 20 cm) obtained from Albufera Lake (Valencia, Spain) and acclimated to laboratory conditions for 2 weeks. Eels did not respond to feeding attempts but appeared healthy. Animals were not fed during the 96-hr

toxicity study. Diazinon (95% ai) prepared in acetone and presumably diluted with tap water. Glass aquaria (40 l) containing 35 l of test solution; solvent control run with 65 µl acetone/l. Ten eels per replicate and four replicates per treatment were tested.

**Description of Use in Document**: Qualitative

Rationale for Use: Study provides useful information on the sensitivity of eels to diazinon.

**Limitations of Study:** Prior chemical exposure (other than diazinon) history is unknown; animals would have been fasted for roughly 3 weeks and likely have mobilized fat reserves where chemical residues may have been present although study claims that diazinon was not detected in the eel prior to exposure.

Primary Reviewer: Thomas Steeger, Ph.D., Senior Biologist

\*

**ECOTOX Record Number and Citation: 7004 and 11438** Sancho, E., M. D. Ferrando, E. Andreu and M. Gamon. 1993. Bioconcentration and Excretion of Diazinon by Eel. Bull. Enviorn. Contam. Toxicol. 50: 578 – 585.

Purpose of Review (DP Barcode or Litigation): Litigation

Date of Review: March 2, 2007

Summary of Study Findings: Wild-caught eels  $(20-30~\rm g;~16-20~\rm cm)$  obtained from Albufera Lake (Valencia, Spain) and acclimated to laboratory conditions for 2 weeks. Eels did not respond to feeding attempts but appeared healthy. Animals were not fed during the 96-hr toxicity study. Diazinon (95% ai) prepared in acetone and presumably diluted with tap water. Glass aquaria (40 l) containing 35 l of test solution; solvent control run with 66  $\mu$ l acetone/l. Ten eels per replicate and four replicates per treatment were tested.

**Description of Use in Document**: Qualitative

Rationale for Use: Study provides useful information on the sensitivity of eels to diazinon.

**Limitations of Study:** Prior chemical exposure (other than diazinon) history is unknown; animals would have been fasted for roughly 3 weeks and likely have mobilized fat reserves

where chemical residues may have been present although study claims that diazinon was not detected in the eel prior to exposure. Essentially the same reference/study as #6221 and #11055.

**Primary Reviewer:** Thomas Steeger, Ph.D., Senior Biologist

\*

**ECOTOX Record Number and Citation:** 66119. Parkhurst, M A., G. Whelan, Y. Onishi and A. R. Olsen. 1981. Simulation of the Migration, Fate and Effects of Diazinon in two Monticello Stream Channels. Battelle, Pacific Northwest Laboratories Report to the U. S. Army Medical Bioengineering Laoboratory, Fort Dietrick, Frederick, MD. Contract 2311104483.

Purpose of Review (DP Barcode or Litigation): Litigation

**Date of Review:** March 2, 2007

**Summary of Study Findings:** Only secondary data are cited in the document (Table 3.14). According to the document, the Monticello Experimental Research Station (MERS) borrowed "extensively" from data they had gathered. The primary sources of data are

**ECOTOX Record Number and Citation:** Sparling, D. W. and G. Fellers. 2006 Comparative toxicity of chlorpyrifos, diazinon, malathion and their oxon derivatives to larval *Rana boylii*. Environmental Pollution (Article in Press; available online at <a href="https://www.sciencedirect.com">www.sciencedirect.com</a>).

Purpose of Review (DP Barcode or Litigation): Litigation

**Date of Review:** March 2, 2007

**Summary of Study Findings:** Wild-caught foothill yellow-legged frog (*Rana boylii*) egg masses (3) collected from a Coast Range stream. Eggs hatched under laboratory conditions in 78 L aquaria for several weeks prior to test initiation. During acclimation, larvae fed boiled organic romaine lettuce and high-protein fish flakes *ad libitum*.

Chloropyrifos, diazinon and malathion and their respective oxons were reagent grade (99% pure) and purchased from Arco Organics (Morris Plains, NJ). Chemicals were dissolved in acetone. Aquaria (8 L) filled with 7 L of reconstituted water; treatment concentrations are nominal. To each aquarium, 9 "same-aged" *R. boylii* tadposles ranging in developmental stage from Gosner 32 to 44. After the first 24 hr of exposure, tadpoles were fed a small amount of organic romaine lettuce.

Total cholinesterase activity determined via a colormetric method of Ellmann *et al*  $(1961)^1$ . Cholinesterase levels were normalized to that of a metamorph by multiplying by 2.4, 1.9 and 1.6 for tadpoles falling into stages 32 - 36, 37 - 39 and 40 - 45, respectively, to account for what the authors claim is an increase in chloinesterase activity with developmental stage of tadpoles.

Probit dose-response curve results for chlorpyrifos, diazinon, malathion and their respective oxygen analogs (oxons) in *R. boylii*.

Chemical	Period	Slope	LC <sub>50</sub>	95% Confidence Interval
Chlorpyrifos	24	17.018	3.005	0.993 - 157
Diazinon	96	3.374ns	7.488	NA
Diazoxon	96	14.077	0.760	0.336 - 3.212
Malathion	96	31.477 ns	2.137	NA
Maloxon	96	133.659	0.023	0.014 - 0.180

ns not significant

NA – not available

Regression results of normalized cholinesterase acitivty against concentration for chlorpyrifos, diazinon, malathion and their respective oxygen analogs (oxons) in *R. boylii*.

Chemical	N	Slope	Intercept	R2
Chlorpyrifos	46	-0.0330	0.8499	0.1383
Chloroxon	9	-26.8088	1.2525	0.2547
Diazinon	20	-0.0796	1.2169	0.1729
Diazoxon	45	-0.0511	0.8504	0.0908
Malathion	28	-0.1028	1.0534	0.2244
Maloxon	27	-24.5409	1.0193	0.1557

The study concludes that each pesticide and their respective oxons significantly depressed normalized cholinesterase activity compared to controls. Regressions of normalized cholinesterase activity over exposure concentration indicated that the oxon forms had steeper declines in AchE activity by concentration than their respective parental forms. Maloxon and chloroxon had steeper negative slopes than diazoxon. For the parent compounds, chlorpyrifos decreased AchE activity more rapidly than did malathion (p=0.0201).

The median 96-hr lethal concentrations for each of pesticides studied along with their respective oxons are reported in Table XX. The median 96-hr  $LC_{50}$  value for diazinon and diazoxon are 7.49 and 0.76 mg/l, respectively, based on nominal concentrations.

Table 96-hr median lethal concentrations and 95% confidence intervals for organophosphate insecticides and their respective oxygen analogs (oxons); probit dose response slopes and associated probability levels are also reported

	Slope	P of slope	$LC_{50}$ (mg/l)	Confidence Interval (mg/l)
Chlorpyrifos	17.02	0.0339	3.005	0.993 - 157

-

<sup>&</sup>lt;sup>1</sup> Ellman, G. I., K. D. Coutney, F. Andres, and R. M. Featherstone. 1961. A new and rapid colorimetric determination of actrylcholinesterase activity. Biochemistry and Pharmacology 7: 88 – 95.

Diazinon	3.374	NS	7.488	NA
Diazinon	14.08	0.001	0.760	0.336 -
oxon				3.212
Malathion	31.48	NS	2.137	NA
Malathion	133.7	0.011	0.023	0.014 -
oxon				0.180

## Description of Use in Document (QUAL, QUAN, INV): Qualitative

**Rationale for Use:** Study provides useful information on the relative sensitivity of amphibians to diazonon compared to surrogate fish species. Also, the study provides useful information on the toxicity of the diazoxon degradate relative to the parent compound.

**Limitations of Study:** Study relies on nominal concentrations rather than measured; wild-caught animals are used and prior chemical exposure history is unknown.

Peer Reviewer: Thomas Steeger, Ph.D., Senior Biologist

\*

**ECOTOX Record Number and Citation: 84407** Lower, N. and A. Moore. 2003. Exposure to insecticides inhibits embryo development and emergence in Atlantic salmon (*Salmo salar* L.). Fish Physiology and Biochemistry 28: 431 – 432.

**Purpose of Review (DP Barcode or Litigation):** Litigation

Date of Review: March 2, 2007

Summary of Study Findings: Six groups of 600 unfertilized eggs placed in 500 ml glass containers and mixed with milt from six male salmon and 200 ml solution with 0.05 and 0.1  $\mu$ g/L of either cypermethrin or diazinon as well as one group with cypermethrin and diazinon combined at 0.05  $\mu$ g/L was added. After 2 minutes, the eggs were rinsed in clean water and placed in separate artificial redds.

Fewer fry successfully hatched following exposure to 0.05 and 0.10  $\mu$ g/L cypermethrin and 0.05  $\mu$ g/L diazinon compared to other treatment groups. Exposure to 0.05  $\mu$ g/L cypermethrin caused fry to emerge earlier and exposure to 0.05  $\mu$ g/L diazinon caused dry to emerge later compared to controls. Disruption of the normal pattern of emergence was greater (p<0.01) when embryos were exposed to the pesticides separately, rather than in combination.

# **Description of Use in Document**: Qualitative

**Rationale for Use:** Study not used quantitatively since exposure concentrations are [presumably] based on nominal and the purity of the test compound is not stated

**Limitations for Use**: The source of the eggs and male fish used for milt is not specified.; purity of the pesticides is not stated. Concentrations presumed to be nominal since there is no discussion on whether concentrations were measured. No raw data are provided; data are plotted on a graph; however, it is not possible to accurately distinguish treatment groups from the graph. Percent changes in hatch and emergence cannot be determined from the information presented in the paper.

**Primary Reviewer:** Thomas Steeger, Ph.D., Senior Biologist.

\*

**ECOTOX Record Number and Citation: 53845** Sánchez, M., M. D. Ferrando, E. Sancho and E. Andreu. 1999. Assessment of the toxicity of a pesticide with a two-generation reproduction test using *Daphnia magna*. Comparative Biochemstry and Physiology Part C 124: 247 – 252.

Purpose of Review (DP Barcode or Litigation): Litigation

Date of Review: March 2, 2007

Summary of Study Findings: Waterfleas, *Daphnia magna*, obtained from in-house culture. Diazinon (96%) dissolved in acetone. Daphnids (<24 hrs old) exposed during 21 days to 5 diazinon concentrations (0.05, 0.1, 0.5, 0.75 and 1.0 ng/L plus an acetone control (10-4 μl/l). Daphnids housed individually in 60-ml glasss beakers containing 50 ml test solution under static-renewal (24 hr) conditions. Dilution water was dechlorinated tap water. Test animals fed with algae (*N. oculata*). A total of 15 replicates per each treatment. From the first brood (F<sub>1</sub>), 15 neonates (<24 hrs old) individually transferred to 60-ml beakers containing clean, untreated water plus solvent control plus negative control and exposed to same concentrations of diazinon as the parents. Afterward, 15 neonates from the third brood (24 hr old) of the parental generation (F<sub>0</sub>) from each pesticide exposure concentration individually transferred to 60-ml beakers containing 50 ml toxicant-free solution, plus the controls; the offspring from this third brood were not exposed to diazinon.

Size (body length), fecundity and survival of each generation determined after 21 days of exposure. Longevity, time to the first reproduction, total number of neonates per female, number of broods and brood size, were the criteria used. Neonates were counted daily and then discarded. The intrinsic rate of natural increase (r) was calculated using the following equation:  $\Sigma l_x m_x e^{-r_x} = l$  where lx is the proportion of individuals surviving to age x,;  $m_x$  is the age-specific number of neonates produced per surviving female at age x (fecundity) and x is days.

Report cites a 24-hr  $LC_{50}$  value of 0.86 (0.76 – 0.96)  $\mu$ g/l; however, no data are provided to support this conclusion.

According to the study results summarized in Table XX, length, longevity and number of young per females were significantly different than controls in all of the diazinon treatments. Based on

information contained in study tables, longevity of parental generation significantly decreased by 20% in the 0.05 ng/l treatment while number of young decreased by 21% compared to the neat control.

Similarly, brood size, number of young per female and number of broods per female also declined significantly in the F1 generation. Survival decreased by 15% while number of young per female and number of broods per females both declined by 36% and 22%, respectively, relative to controls. These data indicate that the chronic NOAEC for diazinon is less than the lowest concentration tested (<0.05 ng/l) following a 21-day exposure for both parental and F1 generations.

No-observed adverse effect concentration in ng/l for parental  $(F_0)$ , first brood  $(F_1$  first) and third brood  $(F_1$  third).  $F_0$  exposed to diazinon continuously for 21 days.

Generation	Carapace Length	Longevity	Days to 1st brood	Number of young per female	Brood size	Number of broods per female	r
$F_0$	<0.05	<0.05	0.1	<0.05	0.05	0.05	0.5
$F_1$ (first)	<0.05	0.5	0.75	0.1	0.1	0.5	0.5
$F_1$ (third)	<0.05	0.5	0.5	0.5	0.5	0.5	0.1

**Description of Use in Document:** Qualitative

**Rationale for Use.:** Study provides useful information on the sensitivity of freshwater invertebrates to diazinon on a chronic exposure basis.

Limitations of Study: presumably the results are reported in terms of active ingredient. Although the study reports that analytical analyses were conducted, the results of those analyses are not presented and the report simply states that mean measured concentrations were >90% of nominal. It is also uncertain whether statistical analyses were conducted relative to the neat control, the solvent control or the pooled controls. Direct comparisons are made between treated groups and the neat (blank) control so presumably controls were not pooled. In the comparisons for various parameters from the third brood of the first generation daphnia, carapace length, number of young per female and brood size were all significantly different for the solvent control versus the negative control. For number of young per female, the acetone control was 37% larger than the negative control and indicates that the solvent may be having an effect. The study is of questionable utility given that the solvent is having a significant effect. Additionally, the study alludes to the fact that diazinon concentrations are measured; however, the level of detection is not stated. The treatment concentrations of as low as 0.05 ng/L are relatively challenging to detect.

Primary Reviewer: Thomas Steeger, Ph.D., Senior Biologist

\*

**ECOTOX Record Number and Citation:** 22702. Sánchez, M., M. D. Ferrando, E. Sancho and E. Andreu. 2000. Physiological Perturbations in Several Generations of *Daphnia magna* Straus Exposed to Diazinon. Ecotoxicology and Environmental Safety 46: 87 – 94

Purpose of Review (DP Barcode or Litigation): Litigation

Date of Review: March 2, 2007

**Summary of Study Findings:** This study appears to be identical to Sánchez *et al.* 1999 (**53845**)

**Description of Use in Document:** Qualitative

**Rationale for Use.:** Study provides useful information on the sensitivity of freshwater invertebrates to diazinon on a chronic exposure basis.

Limitations of Study: presumably the results are reported in terms of active ingredient. Although the study reports that analytical analyses were conducted, the results of those analyses are not presented and the report simply states that mean measured concentrations were >90% of nominal. It is also uncertain whether statistical analyses were conducted relative to the neat control, the solvent control or the pooled controls. Direct comparisons are made between treated groups and the neat (blank) control so presumably controls were not pooled. In the comparisons for various parameters from the third brood of the first generation daphnia, carapace length, number of young per female and brood size were all significantly different for the solvent control versus the negative control. For number of young per female, the acetone control was 37% larger than the negative control and indicates that the solvent may be having an effect. The study is of questionable utility given that the solvent is having a significant effect. Additionally, the study alludes to the fact that diazinon concentrations are measured; however, the level of detection is not stated. The treatment concentrations of as low as 0.05 ng/L are relatively challenging to detect.

**Primary Reviewer:** Thomas Steeger, Ph.D., Senior Biologist

\*

**ECOTOX Record Number and Citation: 71888** Banks, K. E., S. H. Wood, C. Matthews, K. A. Thuesen. 2003. Joint acute toxicity of diazinon and copper to *Ceriodaphnia dubia*. Environmental Toxicology and Chemistry 22(7): 1562 – 1567.

Purpose of Review (DP Barcode or Litigation): Litigation

Date of Review: March 2, 2007

**Summary of Study Findings:** Diazinon (99.8% ai) prepared in reconstituted hard water. Ceriodaphnia dubia neonates (<24 hr old) obtained from cultures maintained at the University of North Texas (Denton, TX). Cultures maintained in hard water and fed green algae

(*Pseudokirchneriella subcapitata*), blended trout chow and Cerophyll® (Ward's Natural Science Establishment, Rochester, NY) and were exposed to a 16:8 light:dark photoperiod. Nominal diazinon test concentrations were 0.05, 0.10, 0.20, 0.40 and 0.80 µg/L.

Toxicity tests are reported to have followed procedures recommented by U.S. EPA. Exposures conducted in 30-ml plastic containers filled with 15 ml of test solution. Four replicates each containing 5 neonates used for each treatment. The test was conducted under static conditions and no food was provided to the organisms during the 48-hr test duration. All tests conducted at 25 + 1°C.

The initial concentration of diazinon in the stock solution determined with ELISA (EnviroGard 96 Well Plate Kit.

Control survival was >90% and water quality remained within the guidelines established by EPA (temperature  $25\pm1^{\circ}$ C; DO  $8.27\pm0.06$  mg/L; pH 8.35-8.36; alkalinity  $136\pm9.5$  mg/L. The measured concentration of diazinon was within 90% of nominal at test initiation. The 48-hr LC<sub>50</sub> value was  $0.45 \mu g/L$  (95% CI:  $0.36-0.57 \mu g/L$ ).

**Description of Use in Document**: Qualitative

**Rationale for Use:** Study provides useful information on the sensitivity of freshwater invertebrates to diazinon.

**Limitations of Study:** study appears to be scientifically sound; however, it relies on nominal concentrations beyond the single measured concentration on the stock solution.

**Primary Reviewer**: Thomas Steeger, Ph.D., Senior Biologist

\*

**ECOTOX Record Number and Citation:** Dutta, H. M. and H. J. M. Meijer. 2003. Sublethal effects of diazinon on the structure of the testis of bluegill, *Lepomis macrochirus*: a microscopic analysis. Environmental Pollution 125: 355 – 360.

Purpose of Review (DP Barcode or Litigation): Litigation

**Date of Review:** March 2, 2007

Summary of Study Findings: Male adult bluegills were obtained from a fish hatchery near Baltic, OH.; fish were acclimated in the lab for 4 months prior to the study in dechlorinated tap water. Test water quality consisted of  $21\pm10$ C, pH  $7\pm0.16$ ; DO  $8.27\pm0.33$  mg/L; alkalinity  $41.78\pm1.48$  mg/L. Fish were fed daily using Tetra Doro Min (Tetra Werke, Germany). Fish were exposed to  $60 \,\mu$ g/L for 24, 48, 72 and  $96 \,h$  and 1 and 2 wk intervals using formulated end-product (25% a,i. 57% aromatic petroleum derivative solvent and 18% inerts. Exposures conducted in 180-1 glass tanks under static renewal conditions with water changes every 24

hours. Ten fish were used in a control tank and presumably the same number was in the treatment tank.

After exposure to 24, 48, 72 96 h and 1 and 2 weeks, treated and control fish were euthanized with 100 mg methyltricaine sulfonate/L buffered with 100 mg sodium bicarbonate/L. Average length, body weight and testicular weight recorded. Testes were fixed in Bouin solution for 24 hrs. Diameter measurement (40) were made of seminiferous tubules, the lumen within the tubules and of the spermatogonia and spermatozoa randomly from the control group and the diazinon-treated group at the different exposure periods using an ocular micrometer.

Table 1 summarizes the results of the study. The authors concluded that in the 96 hr group there were significant reductions in both the lumen and seminferous tubule size in comparison with controls and 24, 48 and 72 hr exposures. After 2 weeks of exposure hardly any lumen was seen. The change in the diameter of the seminiferous tubules was very irregular and there was no correlation between the size of the fish, body weight and weight of the testes after different expsoure periods to diazinon. The authors note significant changes in germ cell diameter; however, they do not appear to be consistently correlated with exposure period.

#### **Description of Use in Document:** Invalid

Rationale for Use: Potential solvent effect not accounted for.

**Limitations of Study:** the study only tested a single concentration of diazinon. The study measured the response from a formulated product; however, the study cannot distinguish between the effects that may have been due to the organic solvent/inerts co-formulated with the active ingredient.

Table Summary of mean lumen diameter, mean seminiferous tubule lumen diameter, mean germ cell diameter and mean spermatozoa diameter in mm following 24, 48, 72, 96 hr and 1 and 2 week exposures to diazinon formulated endproduct at 60 µg/L.

Treatment	Mean lumen diameter (mm)	Mean seminiferous tubule lumen (mm)	Mean germ cell diameter (mm)	Mean spermatozoa diameter (mm)
Control	0.01878	0.0647	0.0129	0.001994
24 hr	0.0343 b	0.0836 b	0.0134	0.001875
48 hr	0.0142 a	0.058	0.0112 a	0.001769 a
72 hr	0.0485 b	0.0849 b	0.0126	0.001694 b
96 hr	0.0072 b	0.0514 a	0.0104 b	0.00124 b
1 week	0.0218 a	0.0692	0.0095 b	0.001575 b
2 week	0.0081 b	0.0528 b	0.0094 b	0.001638 b
a Significant				
b		Highly		Significant

Primary Reviewer: Thomas Steeger, Ph.D., Senior Biologist

\*

**ECOTOX Record Number and Citation:** Banks, K. E., P. K. Turner, S. H. Wood, and C. Matthews. 2005. Increased toxicity to *Ceriodaphnia dubia* in mixtures of atrazine and diazinon at environmentally realistic concentrations. Ecotoxicology and Environmental Safety 60: 28 – 36.

Purpose of Review (DP Barcode or Litigation): Litigation

Date of Review: March 30, 2007

**Summary of Study Findings:** Diazinon (99.8% ai) prepared in reconstituted hard water. Ceriodaphnia dubia neonates (<24 hr old) obtained from cultures maintained at the University of North Texas (Denton, TX). Cultures maintained in hard water and fed green algae (*Pseudokirchneriella subcapitata*), blended trout chow and Cerophyll® (Ward's Natural Science Establishment, Rochester, NY) and were exposed to a 16:8 light:dark photoperiod. Nominal diazinon test concentrations were 0.10, 0.20, 0.40, 0.6, 5, 10, 20 and 40 μg/L.

Toxicity tests are reported to have followed procedures recommented by U.S. EPA. Exposures conducted in 30-ml plastic containers filled with 15 ml of test solution. Four replicates each containing 5 neonates used for each treatment. The test was conducted under static conditions and no food was provided to the organisms during the 48-hr test duration. All tests conducted at 25 + 1°C.

The initial concentration of diazinon in the stock solution determined with ELISA (EnviroGard 96 Well Plate Kit.

Control survival was  $\geq$ 90% and water quality remained within the guidelines established by EPA (temperature  $25\pm1^{\circ}$ C; DO  $8.27\pm0.06$  mg/L; pH 8.35-8.36; alkalinity  $136\pm9.5$  mg/L. The measured concentration of diazinon was within 90% of nominal at test initiation. The 48-hr LC<sub>50</sub> value was  $0.21 \,\mu$ g/L (95% CI:  $0.17-0.25 \,\mu$ g/L).

The study also notes that in combination with atrazine ranging from 5 to 40  $\mu$ g/L, diazinon 48-hr LC<sub>50</sub> values were lower (more sensitive) than with diazinon alone.

Table Median lethal concentrations for diazinon alone and in combination with increasing concentrations of atrazine.

# LC<sub>50</sub> and 95% Confidence Interval (µg/L)

				(F 5, )
Diazinon	alone			0.21 (0.17 - 0.25)
Diazinon	+	5	μg/L	0.16 (0.14 - 0.19)
atrazine				
Diazinon	+	10	μg/L	0.12 (0.11 - 015)
atrazine				

```
Diazinon + 20 \mu g/L 0.14 (0.12 - 0.16) atrazine Diazinon + 40 \mu g/L 0.13 (0.11 - 0.16) atrazne
```

# **Description of Use in Document**: Quantitative

**Rationale for Use**: Study is appears to be scientifically sound and provides a more sensitive endpoint on acute diazinon toxicity to freshwater invertebrates than is available through registrant-submitted data.

**Limitations of Use:** study appears to be scientifically sound; however, it relies on nominal concentrations beyond the single measured concentration on the stock solution. The depression in median lethal concentrations for diazinon when in combination with atrazine does not appear to be concentration dependent.

Primary Reviewer: Thomas Steeger, Ph.D., Senior Biologist

Secondary Reviewer: Kristina Garber, Biologist

**ECOTOX Record Number and Citation: 62247.** Scholz, N. L., N. K. Truelove, G. L. French, B. A. Berejikian, T. P. Quinn, E. Casillas and T. K. Collier. 2000. Diazinon disrupts antipredator and homing behaviors in chinook salmon (*Oncorhynchus tshawytscha*). Canadian Journal of Fisheries and Aquatic Science 57: 1911 – 1918.



# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY NATIONAL HEALTH & ENVIRONMENTAL EFFECTS RESEARCH LABORATORY MID-CONTINENT ECOLOGY DIVISION 6201 CONGDON BOULEVARD, DULUTH, MINNESOTA 55804

office of research and development February 22, 2001

#### **MEMORANDUM**

SUBJECT: Review of papers on diazinon effects on salmon olfaction

FROM: Dave Mount ORD/NHEERL/MED

TO: Tom Steeger OPPTS/OPP/EFED

At your request, I have reviewed two manuscripts regarding the effects of diazinon on olfaction in salmon. These are:

Scholz, N.L., N.K. Truelove, B.L. French, B.A. Berejikian, T.P. Quinn, E. Casillas, and T.K. Collier. 2000. Diazinon disrupts antipredator and homing behaviors in chinook salmon (*Oncorhynchus tshawytscha*). Can. J. Fish. Aquat. Sci. 57:1911-1918.

Moore, A., and C.P. Waring. 1996. Sublethal effects of the pesticide diazinon on olfactory function in the mature male Atlantic salmon parr. J. Fish. Biol. 48:758-775.

The Moore and Waring paper deals with electrophysiological measurements on the olfactory epithelium of salmon and on olfactory-stimulated hormone production in salmon, both after exposure to waterborne diazinon. In general I found no obvious faults with the experimental procedures. The electrophysiological experiments used repeated measures on the same fish and I didn't see any data in the paper to show that this is not an issue, although the text indicates reference measurements were made to determine the effect of this procedure. The olfactory responses were made relative to a standard exposure to L-serine; I'm not familiar with this procedure so I can't comment on how to interpret the absolute values of the responses. Some of the graphs also don't make clear what the control response was (e.g., Figure 1), leaving unclear what effect the lowest exposures had relative to control.

Details aside, the overall package does seem to suggest that olfactory responses of salmon measured in this way (electrophysiogram of perfused olfactory rosettes) are changed by exposure to increasing concentrations of diazinon. The interpretation of these effects is discussed farther below.

The second portion of the Moore and Waring paper evaluates the stimulation of several hormones in male parr exposed to female salmon urine with or without pre-exposure to diazinon. Again, I have some minor quibbles with the procedures and data presentation. An exposure to industrial methylated spirits (IMS) alone, without urine, would have been useful. Also, the data analysis seems confused (figs 4 and 5); rather than determining whether the response was significantly greater than the negative control (no urine), in seems much more logical to determine whether the response with diazinon exposure was significantly reduced from the positive control. On balance, however, it does not seem unreasonable to conclude that exposure to diazinon at some concentration changes response to priming with female salmon urine when measured in this way.

The Scholz et al. paper also contains experiments of two types: 1) effects of diazinon preexposure on responses to an "alarm" stimulus (a water extract of homogenized salmon skin); and 2) return of salmon to the source hatchery after pre-exposure to varying concentrations of diazinon. In the first set of experiments, individual young salmon are exposed to one of several concentrations of waterborne diazinon for 2 hours, then returned to an observation tank where their activity and feeding behavior (on live daphnids) is monitored for 8 minutes, then a standard aliquot of skin extract is introduced, followed by another 8 minutes of observation. The negative control response is for an approximately 80% reduction in activity and about 90% reduction in food strikes following introduction of the skin extract, presumably indicating a natural response to predation occurring in the field. Following on the work of Moore and Waring, if diazinon affects olfaction, then this "alarm response" would be reduced following diazinon exposure.

The data from these experiments indicate that the 2-hour diazinon pre-exposure did not have an effect on activity or feeding behavior <u>prior</u> to introduction of the skin extract. After introduction of the skin extract, activity and feeding behavior was reduced in all treatments and control; however, the magnitude of the response was significantly reduced (or nearly so) in fish pre-exposed to diazinon at 1 ug/L or 10 ug/L. It should be noted that this "alarm" response was not eliminated, only reduced. For example, in control fish, the post-extract activity was reduced by about 82% from pre-extract activity, while after 10 ug/L pre-exposure, post-extract activity was reduced by about 68%.

The homing study evaluated the effect of diazinon on the ability of fish that had already returned to their natal hatchery to return after being transplanted from the hatchery back to a downstream (2 km) location. At total of 40 fish in each of four treatment groups (control and 0.1, 1.0, and 10 ug/L diazinon pre-exposure) were released downstream; of these, a total of 16, 12, 12, and 6 fish, respectively, returned to the hatchery and were recaptured. The statistical tests applied by the authors find that the return of 6 fish in the highest diazinon treatment was significantly different from the solvent control. The design of this experiment causes some discomfort; one could argue that treating the individual fish as the sampling unit is a form of pseudoreplication. Furthermore, the fish were actually released in a series of small groups, but the details are vague and the results are only given in "lump" form. It seems possible that the individual release dates could be used as an experimental unit instead of the individual fish, but this was not done for some reason. The design in general is not very robust; it would be strengthened greatly if the entire experiment would be repeated. The authors also note that the return rate for the control fish was inexplicably lower than has been observed for similar releases in previous years,

although the impact of that on the findings is not immediately obvious. Overall, it seems more likely than not that there may be some effect here, but this is by far the weakest of the experiments in terms of experimental design and interpretation. This is unfortunate, since it is the study that most closely links to assessment endpoints likely to be of concern for ecological risk assessments for this species.

In summary then, all of these experiments (with the possible exception of the last) seem to demonstrate a statistically significant change in physiology or behavior that can be at least theoretically tied to effects of diazinon on olfaction in salmon. The primary issue is how to interpret this information in the context of ecological risk assessment, which is the focus of the remaining discussion. For expediency, I'll refer to the four sets of experiments as the "epithelial", "priming", "alarm", and "homing" studies (in the order described above).

I presume that Agency risk assessments to which these data might be applied would have as their assessment endpoint something like, "protection of balanced, indigenous aquatic communities," or perhaps, "maintenance of naturally reproducing salmon populations." The basic difficulty in interpreting these studies in the context of ecological risk is that the measurements that are made (particularly in the epithelial, priming, and alarm studies) are not clearly tied to these assessment endpoints. One can easily develop scenarios where it is plausible that these measures might affect salmon at the population level, but it is also possible that these changes might be compensated for in other ways that would result in no effect on the population. There is no quantitative link established between these responses and changes in a field population. The Agency's *Framework for Ecological Risk Assessment* (1992) identifies this problem:

In many cases, measurement endpoints at lower levels of biological organization may be more sensitive than those at higher levels. However, because of compensatory mechanisms and other factors, a change in a measurement endpoint at a lower organizational level (e.g., a biochemical alteration) may not necessarily be reflected in changes at a higher level (e.g., population effects). (p. 14)

#### And later on:

Ideally, the stressor-response evaluation quantifies the relationship between the stressor and the assessment endpoint. When the assessment endpoint can be measured, this analysis is straightforward. When it cannot be measured, the relationship between the stressor and measurement endpoint is established first, then additional extrapolations, analyses, and assumptions are used to predict or infer changes in the assessment endpoint. (p. 23)

Measurement endpoints are related to assessment endpoints using the logical structure presented in the conceptual model. In some cases, quantitative methods and models are available, but often the relationship can be described only qualitatively. Because of the lack of standard methods for many of these analyses, professional judgement is an essential component of the evaluation. It is important to clearly explain the rationale for any analyses and assumptions. (p. 23)

Ambient Water Quality Criteria (AWQC) to protect aquatic life represent one of relatively few attempts to standardize the use of toxicity data in risk assessments. The guidelines for deriving these criteria (Stephan et al., 1985) focus on toxicity test endpoints that have direct applicability to population demographics – basically, survival, growth, and reproduction. Other effects are not considered unless there is strong evidence of a direct link between the measured endpoint and survival, growth, or reproduction. In general, data such as those generated by the epithelial, priming, and alarm studies would not be considered directly in the criteria derivation.

Existing criteria documents contain many types of data that were not used in the criteria derivation (the documents collate and review these data, but they are not used to actually define the criterion concentration). For example, behavioral studies with copper and other chemicals have shown avoidance behavior in the laboratory at very low concentrations (e.g., rainbow trout will avoid 1 ug Cu/L). While one could imagine this affecting populations in the field, it is also reasonable to expect that many top notch trout fisheries have ambient copper concentrations of at least 1 ug/L. Presumably, other compensatory factors keep the behavioral response measured under laboratory conditions from resulting in noticeable population-level impacts.

Histological or biochemical changes are often reported for many chemicals at concentrations below that shown to directly affect survival, growth, or reproduction in laboratory toxicity tests. These might be more similar to the epithelial studies conducted by Moore and Waring. The recent revision of the ammonia criteria document (accessible through the OW/OST website) has the following to say about the use of histological endpoints:

Endpoint indices of abnormalities such as reduced growth, impaired reproduction, reduced survival, and gross anatomical deformities are clinical expressions of altered structure and function that originate at the cellular level. Any lesion observed in the test organism is cause for concern and such lesions often provide useful insight into the potential adverse clinical and subclinical effects of such toxicants as ammonia. For purposes of protecting human health or welfare these subclinical manifestations often serve useful in establishing 'safe' exposure conditions for certain sensitive individuals within a population.

With fish and other aquatic organisms the significance of the adverse effect can be used in the derivation of criteria only after demonstration of adverse effects at the population level, such as reduced survival, growth, or reproduction. Many of the data indicate that the concentrations of ammonia that have adverse effects on cells and tissues do not correspondingly cause adverse effects on survival, growth, or reproduction. No data are available that quantitatively and systematically link the effects that ammonia is reported to have on fish tissues with effects at the population level. This is not to say that the investigators who reported both tissue effects and population effects within the same research did not correlate the observed tissue lesions and cellular changes with effects on survival, growth, or reproduction, and ammonia concentrations. Many did, but they did not attempt to relate their observations to ammonia concentrations that would be safe for populations of fish under field conditions nor did they attempt to quantify (e.g.,

increase in respiratory diffusion distance associated with gill hyperplasia) the tissue damage and cellular changes (Lloyd 1980; Malins 1982). Additionally, for the purpose of deriving ambient water quality criteria, ammonia-induced lesions and cellular changes must be quantified and positively correlated with increasing exposures to ammonia.

In summary, the following have been reported:

- 1. Fish recover from some histopathological effects when placed in water that does not contain added ammonia.
- 2. Some histopathological effects are temporary during continuous exposure of fish to ammonia.
- 3. Some histopathological effects have occurred at concentrations of ammonia that did not adversely affect survival, growth, or reproduction during the same exposures.

Because of the lack of a clear connection between histopathological effects and effects on populations, histopathological endpoints are not used in the derivation of the new criterion, but the possibility of a connection should be the subject of further research.

In human health risk assessment, deviations from normal physiology are generally considered to be adverse effects. As described in the text from the ammonia document, the practice in AWQC and in other ecological risk assessments in general, is to focus on effects that cause changes at the population level; this requires the ability to make this link in a manner quantitative enough to say how strong a response in the measured parameter would adversely effect populations.

The combined evidence from the Moore and Waring and Scholz et al. studies do not clearly provide this connection. The electrophysiograph data from the epithelial studies provide strong evidence that diazinon exposure can induce measurable changes in activity of the epithelial rosettes, but there are no means to connect this directly to changes in survival, growth, or reproduction. As shown in Figures 1 and 2 of Moore and Waring, diazinon exposure produces a concentration-dependent decrease in rosette responsiveness, but responsiveness is not lost, just reduced. Thus, the question becomes, "What is the minimum level of rosette activity necessary?"

The priming studies performed by Moore and Waring provide a closer link to reproductive success; these studies link diazinon exposure to changes in reproductive hormone response to priming with female salmon urine. However, data for the endpoint most directly related to reproduction, milt production, were equivocal. The data (figure 6) show a significant increase in milt production in fish primed with urine or urine plus carrier solvent relate to unstimulated fish. However, the more relevant question would be whether diazinon treatment decreases milt production relative to the solvent control; this comparison isn't made, but it does not appear likely that is did, based on the figure. Further, even if one concludes that there is an effect in milt release under these conditions, it isn't clear whether this would actually affect reproductive success under field conditions.

The alarm response studies show a decrease in the so-called "alarm response" following preexposure to diazinon, and the nature of this response is consistent with what might be expected based on the olfactory effects shown by Moore and Waring. While a significant change was found, a substantial alarm response was still present in diazinon-exposed fish. Whether the degree of change noted is sufficient to affect survival/growth/reproduction in the field is uncertain.

The homing studies provide data that are closest to making the link to effects on populations. Clearly, relatively little supposition or extrapolation is necessary to infer that reduced migratory capability could have adverse effects on salmon populations. There is still some question about "how much is too much", but not substantially more so than is faced in interpreting ordinary survival or growth data. Unfortunately, this study is compromised somewhat by a weak design and lack of replication. Having further data on this response using a more robust design (e.g., releasing several lots of fish over the course of several days) would be helpful.

Judging the significance of any of these findings in producing ecological risk is also dependent on determining the relationship between actual exposures that are observed in the field. Although the authors claim that they occur, pulses of diazinon to 10 ug/L are not something that occurs very often to my knowledge – this seems extreme.

Also relevant is how to interpret the likely effects of field exposures on the aquatic community in general. In a construct like AWQC, the much greater sensitivity of other organisms, such as cladocerans (toxic effects in the 0.1 ug/L range), to diazinon cause "acceptable risk" to be exceeded at diazinon concentrations below those showing significant effects on salmon olfaction. This approach doesn't get at how to deal quantitatively with the olfaction data, it just makes it moot for diazinon. If the assessment endpoint is populations of salmon *per se*, rather than protection of aquatic communities, then the problem doesn't go away, unless one considers cladocerans and other organisms highly sensitive to diazinon as part of the habitat essential to maintain salmon populations (after all, it takes more than just water to maintain salmon).

One of the questions you posed was in regard to a desire from the Services to include the alarm response assay as a standard screening test. Two things would generally be required: 1) that the test is shown to be sufficiently reproducible within and between laboratories; and 2) that the endpoint of the assay be more sufficiently tied to the assessment endpoint (presumably maintenance of salmon populations or aquatic communities). If one were to attempt the latter, it would seem that combining the olfaction assays with the homing studies for multiple chemicals in multiple trials would be a good first step, though I don't know how reliable it is to assume that something that blocks the alarm response would necessarily interfere with homing (or the reverse). If no more attempt is made to relate the olfaction assays with populations response, it will be very difficult to move the olfaction issue into a part of the risk calculation rather than being simply a component of the qualitative uncertainty.

I've spent most of this discussion describing things that discourage the use of these data in quantitatively describing risk. I should counter this by saying that the difficulty of incorporating this information into a risk assessment should not be taken to suggest that adverse effects of diazinon on salmon populations are not possible via this mechanism (provided exposures were

sufficiently high). Certainly the cluster of studies looking at the issue show a fair amount of internal consistency with regard to the existence of such an effect at concentrations below those that reduce survival or growth in salmon or other fish species. This particular case is even more troubling because it is unlikely that any traditional toxicity test could effectively measure effects on salmon reproduction directly, and, in the case of salmon, successful reproduction in the field is thought/known to be dependent on olfaction in ways that wouldn't be assessed using traditional chronic toxicity tests on this or other fish species. Describing this uncertainty qualitatively within a risk assessment would definitely be appropriate, even if olfaction data are not part of the quantitative risk calculation. The risk manager will be faced with the decision as to how this uncertainty affects management decisions; at this point, I'm not sure that our scientific understanding can do more than frame the question.

Stephan CE, Mount DI, Hansen DJ, Gentile JH, Chapman GA, Brungs WA. 1985. Guidelines for deriving numerical national water quality criteria for the protection of aquatic organisms and their uses. U.S. EPA, Environmental Research Laboratory, Duluth, MN. NTIS No. PB85-227049. 98 pp.

\*

Rodgers, M. H. 2005b. Diazoxon (a metabolite of the active ingredient diazinon) Dietary Toxicity (LD<sub>50</sub>) to the Bobwhite Quail. Huntingdon Life Sciences Limited, Woolley Rd, Alconbury, Huntingdon, Cambridgeshire, England (Huntingdon Project ID: MAK 872). Sponsored by Makhteshim-Agan of North America Inc., 4515 Falls of Neuse Rd., Suite 300, Raleigh, NC 27609 (Makhteshim Project Number: R-18131). Study initiated: 04/05/05; study completed: 05/25/05 (**MRID 465796-02**)

The acute dietary toxicity of diazoxon, a metabolite of th active ingredient diazinon, to approximately 12-d old Bobwhite quail (*Colinus virginianus*) was assessed over 8 days (5 days of exposure plus 3-day post-exposure observation period). Diazoxon was administered to the birds in the diet at 30, 60, 120, 240, 480 and 960 mg a.i/kg diet of diet. The 5 day acute dietary LC<sub>50</sub> was 72.3 mg a.i/kg of diet. The 5-day NOAEC of diazoxon based on reduced body weight was 9.4 mg a.i/kg diet of diet (based on a preliminary study). According to the US EPA classification, diazoxon would be classified as highly toxic to Bobwhite quail on a subacute dietary exposure basis.

Clinical signs were confined to unsteadiness/inability to stand and subdued behavior in the groups treated with at 60, 120, 240, 480 and 960 mg/kg diet. All birds in the groups treated at 60, 120, 240, 480 and 960 mg/kg diet displayed clinical and/or were found dead. Mortality was observed at 60 (20%), 120 (100%), 240 (100%), 480 (100%) and 960 (100%) mg/kg diet.

This toxicity study is classified as scientifically sound and is thus acceptable and does satisfy the guideline requirement for subacute dietary toxicity study for Bobwhite quail.

\*

Rodgers, M. H. 2005a. Diazoxon (a metabolite of the active ingredient diazinon) Acute Oral Toxicity (LD<sub>50</sub>) to the Bobwhite Quail. Huntingdon Life Sciences Limited, Woolley Rd,

Alconbury, Huntingdon, Cambridgeshire, England (Huntingdon Project ID: MAK 874). Sponsored by Makhteshim-Agan of North America Inc., 4515 Falls of Neuse Rd., Suite 300, Raleigh, NC 27609 (Makhteshim Project Number: R-18127) (**MRID 465796-04**).

The acute oral toxicity of diazoxon (a metabolite of the active ingredient diazinon) to 27-wk old Bobwhite quail (*Colinus virginianus*) was assessed over 14 days. Diazoxon was administered to the birds by oral intubation (gavage) at 0.79, 1.31, 2.18, 3.61 and 6.00 mg a.i./kg bw. The 14-day acute oral LD $_{50}$  was 4.94.mg a.i/kg bw. The 14-day NOEL of diazoxon to the Bobwhite quail, based on mortality and behavioral effects was 2.18 mg a.i/kg bw. According to the US EPA classification, diazoxon would be classified as very highly toxic to Bobwhite quail on an acute oral exposure basis.

No clinical signs observed in groups dosed at 0.75, 1.30, 2.25 mg/kg bw or the control group. Clinical signs observed in the groups dosed at 3.63 and 6.16 mg a.i./kg bw were confined to subdued behavior, unsteadiness and frothy fluid around the beak on the day of dosing. No other clinical signs were observed through the remainder of the observation period.

This toxicity study is classified as scientifically sound and is acceptable; the study is consistent with guideline requirements for an acute oral toxicity study using Bobwhite quail.

\*

Grade, R. 1993a. Report on the acute toxicity of G27550 (Oxypyrimidine) to rainbow trout (*Oncorhynchus mykiss*). Ciba-Giegy Ltd., Product Safety, Ecotoxicology, CH-4002 Basel, Switzerland. Project Number 932504. Sponsor: Makhteshim Chemical Works, Ltd., 551 Fifth Ave. Suite 1100, New York, New York 100176. (**MRID 463643-12**).

In a 96-h acute toxicity study, rainbow trout (*Oncorhynchus mykiss*) were exposed to technical grade G 27550 (Oxypyrimidine) at measured concentrations of 0, 9.8, 18.1, 32.3, 60.8 and 101.1mg a.i./L under static conditions. The 96-h LC<sub>50</sub> was greater than the highest concentration (101.1 mg a.i/L) tested. The NOEC value, based on sub-lethal effects, was 60.8 mg a.i/L. Sublethal effects (swimming behavior, loss of equilibrium, respiratory effects) were observed in the groups exposed to 101.1 mg a.i./L of G27550. Based on the results of this study, G 27550 would be classified as practically nontoxic to rainbow trout in accordance with the classification system of the U.S. EPA.

This toxicity study is scientifically sound; however, because the study was conducted under static conditions and failed to characterize water quality parameters adequately and exceeded recommended ranges for both pH and water hardness, the study is classified as supplemental.

\*

Grade, R. 1993b. Report on the acute toxicity of G27550 (Oxypyrimidine) on *Daphnia magna*. Ciba-Giegy Ltd., Product Safety, Ecotoxicology, CH-4002 Basel, Switzerland. Project Number 932505. Sponsor: Makhteshim Chemical Works, Ltd., 551 Fifth Ave. Suite 1100, New York, New York 100176. (**MRID 463643-13**).

The 48-hr-acute toxicity of the diazinon degradate oxypyrimidine to *Daphnia magna* was studied under static conditions. Daphnids were exposed to control and test chemical measured at 10.2, 18.4, 32.7, 59.3 and 101.6 mg a.i/L for 48 hr. Mortality and sublethal effects were observed daily. The 48- hour LC<sub>50</sub> was greater than 101.6 mg a.i/L. The 48-hr NOEC based on mortality was 101.6 mg a.i/L. No sublethal effects were observed during the study period.

Based on the results of this study, oxypyrimidine would be classified as practically nontoxic to the freshwater invertebrate *Daphnia magna* in accordance with the classification system of the U. S. EPA.

This study is classified as supplemental and can be upgraded to core if the registrant can demonstrate that neither water hardness and/or pH affect the toxicity and solubility of oxypyrimidine. Additionally, the registrant should provide more information on the quality of water used in the study.

\*

Grade, R. 1993c. Report on the growth inhibition of G27550 (Oxypyrimidine) to Green Algae (*Scenedesmus suspicatus*). Ciba-Giegy Ltd., Product Safety, Ecotoxicology, CH-4002 Basel, Switzerland. Project Number 932507. Sponsor: Makhteshim Chemical Works, Ltd., 551 Fifth Ave. Suite 1100, New York, New York 100176. (MRID 463643-14).

In a 72 hour acute toxicity study, the cultures of green algae (*Scenedesmus subspicatus*) were exposed to oxypyrimidine at measured concentrations of 1.1, 3.8, 11.6, 35.2 and 109.1 mg a.i/L under static conditions. The NOAEC or  $EC_{05}$  and  $EC_{50}/IC_{50}$  values based on cell density were 109.1 mg a.i./L and >109.1 mg a.i./L, respectively. No phytotoxic effects were reported in the study; therefore, there were no compound related phytotoxic effects.

This toxicity study is classified as scientifically sound; however, because of the lack of information regarding the study water, this study is classified as supplemental.

# Appendix B. Example output file from PRZM/EXAMS modeling (2 aerial applications to lettuce)

stored as Diaz\_lettuceben.out

Chemical: Diazinon

PRZM environment: CAlettuceC.txt modified Monday, 11 October 2004 at 15:23:40 EXAMS environment: pond298.exv modified Thuday, 29 August 2002 at 16:33:30

Metfile: w23273.dvf modified Wedday, 3 July 2002 at 09:04:22

Benthic segment concentrations (ppb)

```
Year
     Peak
            96 hr 21 Day 60 Day 90 Day Yearly
      5.042 5.041 5.025 4.913 4.767 2.967
1961
     19.79 19.78 19.72 19.29 18.72 11.64
1962
     18.84 18.84 18.78 18.37 17.84 11.83
1963
1964
     7.919 7.918 7.893 7.714 7.497 5.395
1965
     6.293 6.292 6.272 6.125 5.937 4.08
1966 6.918 6.917 6.894 6.736 6.533 4.215
1967
     5.987 5.986 5.967 5.851 5.703 3.801
1968
     6.492 6.491 6.469 6.315 6.118 3.953
1969
     28.35 28.34 28.25 27.61 26.8
                                     16.63
1970 21.19 21.19 21.11 20.6
                              19.93 12.8
1971
     6.948 6.947 6.924 6.776 6.59 4.792
1972
     4.369 4.368 4.353 4.248 4.114 2.697
     11.72 11.72 11.68 11.42 11.07 6.892
1973
1974
     17.92 17.92 17.86 17.44 16.89 10.46
1975
     17.7
            17.7
                  17.64 17.25 16.75 10.91
1976
     14.82 14.82 14.79 14.49 14.08 9.092
1977
            8.499 8.471 8.3
      8.5
                              8.187 5.834
1978
     29.09 29.08 28.99 28.33 27.47 16.95
                  12.56 12.29 12
1979
     12.61 12.6
                                     8.379
1980
     11.78 11.78 11.74 11.48 11.14 7.149
1981
      24.46 24.46 24.38 23.81 23.08 14.38
1982
     9.972 9.97
                  9.938 9.712 9.441 6.766
     29.26 29.25 29.15 28.45 27.54 16.85
1983
1984
     7.617 7.616 7.59
                        7.415 7.217 4.919
1985
     6.358 6.357 6.338 6.202 6.025 3.911
     13.63 13.63 13.58 13.24 12.81 7.853
1986
1987
      15.35 15.34 15.29 14.92 14.44 8.982
1988
     10.62 10.62 10.58 10.42 10.15 6.484
     5.218 5.218 5.198 5.06
1989
                              4.883 3.126
1990
     5.079 5.078 5.059 4.925 4.755 2.948
```

#### Sorted results

Prob. Peak 96 hr 21 Day 60 Day 90 Day Yearly 0.032258064516129 29.26 29.25 29.15 28.45 27.54 16.95 0.0645161290322581 29.09 29.08 28.99 28.33 27.47 16.85

```
0.0967741935483871 28.35 28.34 28.25 27.61 26.8
                                                 16.63
0.129032258064516 24.46 24.46 24.38 23.81 23.08 14.38
0.161290322580645 21.19 21.19 21.11 20.6
                                           19.93 12.8
0.193548387096774 19.79 19.78 19.72 19.29 18.72 11.83
0.225806451612903 18.84 18.84 18.78 18.37 17.84 11.64
0.258064516129032 17.92 17.92 17.86 17.44 16.89 10.91
0.290322580645161 17.7
                        17.7
                               17.64 17.25 16.75 10.46
                  15.35 15.34 15.29 14.92 14.44 9.092
0.32258064516129
                 14.82 14.82 14.79 14.49 14.08 8.982
0.354838709677419
0.387096774193548 13.63 13.63 13.58 13.24 12.81 8.379
0.419354838709677
                  12.61 12.6
                              12.56 12.29 12
                                                 7.853
0.451612903225806 11.78 11.78 11.74 11.48 11.14 7.149
0.483870967741936
                 11.72 11.72 11.68 11.42 11.07 6.892
0.516129032258065 10.62 10.62 10.58 10.42 10.15 6.766
0.548387096774194 9.972 9.97
                              9.938 9.712 9.441 6.484
                        8.499 8.471 8.3
0.580645161290323 8.5
                                           8.187 5.834
0.612903225806452 7.919 7.918 7.893 7.714 7.497 5.395
0.645161290322581 7.617 7.616 7.59
                                     7.415 7.217 4.919
                  6.948 6.947 6.924 6.776 6.59
                                                 4.792
0.67741935483871
0.709677419354839 6.918 6.917 6.894 6.736 6.533 4.215
0.741935483870968
                 6.492 6.491 6.469 6.315 6.118 4.08
0.774193548387097 6.358 6.357 6.338 6.202 6.025 3.953
0.806451612903226 6.293 6.292 6.272 6.125 5.937 3.911
0.838709677419355 5.987 5.986 5.967 5.851 5.703 3.801
0.870967741935484 5.218 5.218 5.198 5.06
                                           4.883 3.126
0.903225806451613 5.079 5.078 5.059 4.925 4.767 2.967
0.935483870967742 5.042 5.041 5.025 4.913 4.755 2.948
0.967741935483871 4.369 4.368 4.353 4.248 4.114 2.697
```

### 0.1 27.961 27.952 27.863 27.23 26.428 16.405

Average of yearly averages: 7.8895

#### Inputs generated by pe4.pl - 8-August-2003

Data used for this run:
Output File: Diaz\_lettuce
Metfile: w23273.dvf

PRZM scenario: CAlettuceC.txt EXAMS environment file: pond298.exv

Chemical Name: Diazinon

Description Variable Name Value Units Comments

Molecular weight mwt 304.3 g/mol

Henry's Law Const. henry 1.40e-6 atm-m^3/mol

Vapor Pressure vapr 1.40e-4 torr

Solubility sol 400 mg/L

Kd Kd mg/L

Koc Koc 616 mg/L Photolysis half-life kdp 37 days Half-life Aerobic Aquatic Metabolism kbacw 77.4 Halfife days Anaerobic Aquatic Metabolism kbacs 0 days Halfife Aerobic Soil Metabolism 38.7 days Halfife asm Hydrolysis: pH 5 days Half-life 12 Hydrolysis: pH 7 138 days Half-life Hydrolysis: pH 9 77 Half-life days Method: CAM 2 integer See PRZM manual Incorporation Depth: DEPI 0 cm **Application Rate:** TAPP 2.24 kg/ha Application Efficiency: APPEFF 0.95 fraction Spray Drift **DRFT 0.05** fraction of application rate applied to pond **Application Date** 25-01 dd/mm or dd/mmm or dd-mmm Date Interval 1 days Set to 0 or delete line for single app. interval 30 Record 17: **FILTRA IPSCND UPTKF** Record 18: **PLVKRT PLDKRT** 0.5 **FEXTRC** Flag for Index Res. Run IR Pond Flag for runoff calc. RUNOFF

none

none, monthly or total(average of entire run)

Appendix C. Example output from TerrPlant v.1.2.2 model (single aerial application to lettuce)

Table 1. Chemical Identif	ty.
Chemical Name	Diazinon
PC code	CARLF
Use	lettuce (incorporation)
Application Method	aerial
Application Form	liquid
Solubility in Water	
(ppm)	40

Table 2. Input parameters used to derive EECs.									
Input Parameter Symbol Value Units									
Application Rate	Α	2	lbs a.i./A						
Incorporation	I	1.6	none						
Runoff Fraction	R	0.02	none						
Drift Fraction	D	0.05	none						

Table 3. EECs for Diazinon. Units in lbs a.i./A.									
Description Equation EEC									
Runoff to dry areas	(A/I)*R	0.025							
Runoff to semi-aquatic areas	(A/I)*R*10	0.25							
Spray drift	A*D	0.1							
Total for dry areas	((A/I)*R)+(A*D)	0.125							
Total for semi-aquatic areas	((A/I)*R*10)+(A*D)	0.35							

Table 4. Plant survival and growth data used for RQ derivation. Units are in lbs a.i./A.										
	Seedling E	Emergence	Vegetative Vigor							
Plant type	EC25	NOAEC	EC25	NOAEC						
Monocot	5.26	X	x 7							
Dicot	9.03									

Table 5. RQ values for plants in dry and semi-aquatic areas exposed to Diazinon through runoff and/or spray drift.*											
Plant Type	Plant Type Listed Status Dry Semi-Aquatic Spray Drift										
Monocot	non-listed <0.1 <0.1 <0.1										
Monocot	listed	#VALUE!	#VALUE!	#VALUE!							
Dicot	non-listed	<0.1	<0.1	<0.1							
Dicot	listed	#VALUE!	#VALUE!	#VALUE!							
*If RQ > 1.0, the LOC is ex	ceeded, resulting in p	otential for risk to th	at plant group.								

Appendix D. Example output from T-REX v.1.3.1 model (single application to lettuce)

### **Summary of Risk Quotient Calculations Based on Upper Bound Kenega EECs**

Tab	Table X. Upper 90th Percentile Kenaga, Acute Avian Dose-Based Risk Quotients											
					EECs a	nd RQs						
Size Class (grams)	Adjusted LD50	Short Grass		Tall Grass		Broadleaf Plants/ Small Insects		Fruits/Pods/ Seeds/ Large Insects				
(g= 11===)		EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ			
20	0.75	546.67	731.15	250.56	335.11	307.50	411.27	34.17	45.70			
100	0.95	311.74	327.51	142.88	150.11	175.35	184.22	19.48	20.47			
1000	1.34	139.57	103.81	63.97	47.58	78.51	58.39	8.72	6.49			

Table	Table X. Upper 90th Percentile Kenega, Subacute Avian Dietary Based Risk Quotients										
	EECs and RQs										
	Short (	Short Grass		Tall Grass		dleaf nts/ Insects	Fruits/Pods/ Seeds/ Large Insects				
LC50	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ			
32	480.00	15.00	220.00	6.88	270.00	8.44	30.00	0.94			

Size class not used for dietary risk quotients

Table X. Upper 90th Percentile Kenega, Chronic Avian Dietary Based Risk Quotients											
	EECs and RQs										
NOAEC	Short (	Grass	Tall (	Tall Grass		Broadleaf Plants/ Small Insects		Fruits/Pods/ Seeds/ Large Insects			
(ppm)			EEC	RQ	EEC	RQ	EEC	RQ			
8	480.00	57.83	220.00	26.51	270.00	32.53	30.00	3.61			

,	Table X. Upper 90th Percentile Kenaga, Acute Mammalian Dose-Based Risk Quotients												
			EECs and RQs										
Size Class (grams)	Adjusted LD50	d Short Grass		Tall (	Tall Grass		Broadleaf Plants/ Small Insects		Fruits/Pods/ Seeds/ Large Insects		Granivore		
		EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ		
15	1109.90	457.64	0.41	209.75	0.19	257.42	0.23	28.60	0.03	6.36	0.01		
35	898.03	316.29	0.35	144.97	0.16	177.91	0.20	19.77	0.02	4.39	0.00		
1000	388.43	73.33	0.19	33.61	0.09	41.25	0.11	4.58	0.01	1.02	0.00		

Table X	Table X. Upper 90th Percentile Kenega, Acute Mammalian Dietary Based Risk Quotients EECs and RQs										
LC50	Short (	Grass	Tall (	Tall Grass		Broadleaf Plants/ Small Insects		Fruits/Pods/ Seeds/ Large Insects			
(ppm)	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ			
0	480.00	#####	220.00	#####	270.00	#####	30.00	#####			

Size class not used for dietary risk quotients

Table X. Upper 90th Percentile Kenega, Chronic Mammalian Dietary Based Risk Quotients												
		EECs and RQs										
NOAEC					Broa	dleaf	Fruits/Pods/					
(ppm)	Short Grass		Tall (	Tall Grass		nts/	Seeds/					
(ppin)					Small	Insects	Large Insects					
	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ				
10	480.00	48.00	220.00	22.00	270.00	27.00	30.00	3.00				

Т	Table X. Upper 90th Percentile Kenega, Chronic Mammalian Dose-Based Risk Quotients												
			EECs and RQs										
Size Class (grams)	Adjusted NOAEL	Short	Grass	Tall Grass		Broadleaf Plants/ Small Insects		Fruits/Pods/ Seeds/ Large Insects		Granivore			
		EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ		
15	1.10	457.64	416.45	209.75	190.87	257.42	234.25	28.60	26.03	6.36	5.78		
35	0.89	316.29	355.73	144.97	163.04	177.91	200.10	19.77	22.23	4.39	4.94		
1000	0.38	73.33	190.68	33.61	87.40	41.25	107.26	4.58	11.92	1.02	2.65		

## Summary of Risk Quotient Calculations Based on Mean Kenega EECs

	Т	able X. N	Aean Kena	nga, Acut	te Avian D	ose-Base	l Risk Quotier	nts	
					EI	ECs and I	RQs		
Size Class (grams)	Adjusted LD50	Short Grass		Tall Grass		Broadleaf Plants/ Small Insects		Fruits/Pods/ Seeds/ Large Insects	
		EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ
20	0.75	193.80	259.200	82.08	109.779	102.60	137.224	15.96	21.346
100	0.95	110.50	116.091	46.80	49.168	58.50	61.460	9.10	9.560
1000	1.34	49.30	36.668	20.88	15.530	26.10	19.412	4.06	3.020

	Table X. M	ean Kene	ega, Subac		n Dietary	Based Risk	Quotients	
	Short C	Grass	Tall (	Grass	Broad Plan Small l	nts/	Fruits/F Seed Large In	s/
LC50	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ
32	170.00	5.313	72.00	2.250	90.00	2.813	14.00	0.438

Size class not used for dietary risk quotients

	Table X. M	lean Kene	ega, Chroi		n Dietary I and RQs	Based Ris	k Quotients	
NOAEC	Short G	Grass	Tall G	Grass	Broad Plan Small I	nts/	Fruits/Po Seeds/ Large Ins	,
(ppm)	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ
8	170.00	20.482	72.00	8.675	90.00	10.843	14.00	1.687

	Table X. Mean Kenaga, Acute Mammalian Dose-Based Risk Quotients												
				T		EEC	cs and RQs						
Size Class (grams)	Adjusted LD50	Short	Grass	Tall	Grass		lleaf Plants/ all Insects		Fruits/Pods/ Seeds/ Large Insects		Granivore		
		EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ		
15	1109.90	161.50	0.146	68.40	0.062	85.50	0.077	13.30	0.012	2.94	0.00		
35	898.03	112.20         0.125         47.52         0.053         59.40         0.066         9.24         0.010         2.10								0.00			
1000	388.43	25.50	0.066	10.80	0.028	13.50	0.035	2.10	0.005	0.42	0.00		

Т	Table X. Mea	an Keneg	a, Acute N		an Dietary and ROs	Based R	isk Quotients			
LC50	Short G	Frass	Tall G		Broad Plar Small I	nts/	Fruits/Po Seeds/ Large Inse	,		
(ppm)	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ		
0	170.00	#####	72.00	#####	90.00	#####	14.00	#####		

Size class not used for dietary risk quotients

Та	ble X. Mear	n Kenega	, Chronic	Mamma	lian Dietaı	y Based l	Risk Quotients					
				<b>EECs</b>	and RQs							
NOAEC (ppm)	Short G	Grass	Tall G	Grass	Broad Plai Small I	nts/	Fruits/Po Seeds/ Large Ins	,				
	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ				
10	170.00	170.00         17.000         72.00         7.200         90.00         9.000         14.00         1.400										

	Table X. Mean Kenega, Chronic Mammalian Dose-Based Risk Quotients											
				T		EEC	Cs and RQs					
Size Class (grams)	Adjusted NOAEL	Short	Short Grass Tall Grass Broadleaf Plants/ Small Insects			uits/Pods/ Seeds/ ge Insects	Gran	ivore				
		EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ	
15	1.10	161.50	146.963	68.40	62.243	85.50	77.804	13.30	12.103	2.94	2.68	
35	0.89	112.20	126.189	47.52	53.445	59.40	66.806	9.24	10.392	2.10	2.36	
1000	0.38	25.50	66.306	10.80	28.083	13.50	35.103	2.10	5.460	0.42	1.09	

Appendix E. Output from T-HERPS v.1.0 model (single application to fig)

### **Summary of Risk Quotient Calculations Based on Upper Bound Kenaga EECs**

Table X. Upper Bound Kenaga, Acute Terrestrial Herpetofauna Dose-Based Risk Quotients **EECs and RQs Broadleaf** Fruits/Pods/ Small Small Size Class Adjusted Small Plants/ Seeds/ Herbivore Insectivore (grams) LD50 **Amphibians Small Insects Large Insects Mammals** Mammal EEC RQ **EEC** RQ EEC RQ **EEC** RQ **EEC** RQ 1.4 1.44 2.62 1.82 0.29 0.20 N/AN/AN/AN/A N/A N/A37 1.44 2.58 1.79 0.29 0.20 74.80 51.94 4.67 3.25 0.09 0.06 238 1.44 1.69 1.17 0.19 0.13 11.63 8.08 0.73 0.06 0.04 0.50

Table X.	Upper Bound	Kenaga,	Subacut		trial Her ECs and		a Dietary	Based I	Risk Quo	tients
LC50 (ppm)	Broadleaf I Small Ins		Se	s/Pods/ eds/ Insects	Herb	nall pivore nmals	Insec	all tivore ımals	Sma Amphil	
	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ
32	67.50	2.11	7.50	0.23	79.07	2.47	4.94	0.15	2.34	0.07

Size class not used for dietary risk quotients

Table X.	Upper Bound	Kenaga,	Chronic		rial Herp ECs and		Dietary	Based R	Risk Quot	ients
NOAEC (ppm)	Broadleaf I Small Ins		Sec	s/Pods/ eds/ Insects	Herb	nall ivore nmals		all tivore ımals	e Amph	iall ibians
	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ
8	67.50	8.13	7.50	0.90	79.07	9.53	4.94	0.60	2.34	0.28

## Summary of Risk Quotient Calculations Based on Mean Kenaga EECs

	Table X.	Mean K	enaga, A	cute Teri	restrial H	erpetofau	na Dose-Ba	sed Risk	Quotients	S	
						EECs	and RQs				
Size Class (grams)	Adjusted LD50	Broa Pla Small 1	nts/	See	/Pods/ eds/ Insects	.0	lerbivore nmals	Sm Insect Mam	ivore	Sm Amphi	
		EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ
1.4	1.44	0.87	0.61	0.14	0.094	N/A	N/A	N/A	N/A	N/A	N/A
37	1.44	0.86	0.60	0.13	0.093	26.49	18.397	2.18	1.52	0.03	0.02
238	1.44	0.56	0.39	0.09	0.061	4.12	2.860	0.34	0.24	0.02	0.01

Т	able X. Mean	Kenaga,	Subacut	e Terresti	rial Herp	etofauna I	Dietary Bas	ed Risk Q	uotients	
					EECs a	nd RQs				
LC50 (ppm)	Broadleaf I Small Ins		Se	s/Pods/ eds/ Insects	Herl	nall Divore nmals	Small Ins Mam			nall nibians
	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ
32	22.50	0.703	3.50	0.109	28.01	0.8752	2.31	0.072	0.78	0.024

Size class not used for dietary risk quotients

Т	Cable X. Mean	Kenaga,	Chronic	Terrestr		etofauna D nd RQs	ietary Base	ed Risk Qu	otients	
NOAEC (ppm)	Broadleaf I Small Ins		Se	s/Pods/ eds/ Insects	Sn Hert	nall pivore nmals	Small Ins Mam		Sm Amphi	
	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ
8	22.50	2.711	3.50	0.422	28.01	3.3741	2.31	0.278	0.78	0.094

### Appendix F. Sensitivity Distribution Data

Tables F.1-F.4 contain the 96-hour  $LC_{50}$  data for fish and associated calculations used to derive the species sensitivity distribution shown in Figure 21 (of risk assessment). Tables F.5-F.8 contain the 48 to 96-hour  $EC_{50}$  data for invertebrates and associated calculations used to derive the species sensitivity distribution shown in Figure 23 (of risk assessment). Tables F.9-F.12 contain  $LD_{50}$  data for birds and associated calculations used to derive the species sensitivity distribution shown in Figure 22 (of risk assessment).

Table F.1. Su	Table F.1. Summary of 96 hour LC50 data for effects of diazinon on freshwater fish.						
Common Name	Species Name	Mean LC50 (ppb)	Log 10 LC50	Test Subst. (% a.i.)	MRID/ Accession	ECOTOX Number	Comments
Bluegill	Lepomis						
sunfish	macrochirus	136	2.134	91.0	104923	NA	cited in RED
Bluegill sunfish	Lepomis macrochirus	460	2.663	92.5	ROODI007	NA	cited in RED
Bluegill	Lepomis						
sunfish	macrochirus	168	2.225	92.0	40094602	NA	cited in RED
Brook trout	Salelinus fontinalis	770	2.886	92.5	ROODI007	NA	cited in RED
Cutthroat	Oncorhynchus						
trout	clarki	1700	3.230	92.0	40094602	NA	cited in RED
Fathead	Pimephales						
Minnow	promeals	7800	3.892	92.5	ROODI007	NA	cited in RED
Flagfish	Jordanella floridae	1600	3.204	92.5	ROODI007	NA	cited in RED
Guppy	Lebistes reticulatus	1100	3.041	NR	5000811	NA	cited in RED
	Salevelinus						
Lake trout	namaychus	602	2.780	92.0	40094602	NA	cited in RED
Rainbow	Oncorhynchus						
trout	gairdneri	90	1.954	89.0	40094602	NA	cited in RED
Rainbow	Oncorhynchus						
trout	sp.	400	2.602	91.0	104923	NA	cited in RED

NR = not reported, NA = not applicable

Table F.2. Species Mean Acute Values (SMAVs) for freshwater fish.				
Common Name	Species Name	Log10 SMAV		
Bluegill sunfish	Lepomis macrochirus	2.3405		
Brook trout	Salelinus fontinalis	2.8865		
Cutthroat trout	Oncorhynchus clarki	3.2304		
Fathead Minnow	Pimephales promeals	3.8921		
Flagfish	Jordanella floridae	3.2041		
Guppy	Lebistes reticulatus	3.0414		
Lake trout	Salevelinus namaychus	2.7796		
Rainbow trout	Oncorhynchus gairdneri	1.954		
Rainbow trout	Oncorhynchus sp.	2.602		

Table F.3. Genus Mean Acute Values (GMAVs) for freshwater fish.						
Common Name	Species Name	Log10 GMAV	GMAV LC50	Sensitivity Rank	Rank on curve	
sunfish	Lepomis	2.3405	219	1	0.00	
Brook trout	Salelinus	2.8865	770	4	0.50	
Trout	Oncorhynchus	2.5956	394	2	0.17	
Fathead Minnow	Pimephales	3.8921	7800	7	1.00	
Flagfish	Jordanella	3.2041	1600	6	0.83	
Guppy	Lebistes	3.0414	1100	5	0.67	
Lake trout	Salevelinus	2.7796	602	3	0.33	
Genus Mean for All:		2.9628	1784			
Genus Standard Devia	ation for all:	0.4982	2693			

Table F.4. Calculation of species sensitivity distribution curve for freshwater fish.					
Proportion	$\mathbf{Z}_{\mathtt{P}}$	Log10 point	Point Estimate		
0.05	-1.645	2.143229	139		
0.10	-1.282	2.324089	211		
0.20	-0.842	2.543314	349		
0.25	-0.675	2.626761	423		
0.30	-0.524	2.701754	503		
0.40	-0.253	2.836776	687		
0.50	0	2.962831	918		
0.60	0.253	3.088885	1227		
0.70	0.524	3.223907	1675		
0.75	0.675	3.299141	1991		
0.80	0.842	3.382347	2412		
0.90	1.282	3.601572	3996		
0.95	1.645	3.782432	6059		
$Z_P = (Log10 \ LC50 - fish mean GMAV)/(fish std GMA)$	V)				

		Table F.5. Summary of 48-96 hour EC50 data for effects of diazinon on freshwater invertebrates.						
Species Name	Mean EC50 (ppb)	Log 10 EC50	Test Substa nce (% a.i.)	MRID	ECOTOX Number	Comments		
Ceriodaphnia dubia	0.21	-0.678	NA		76752			
Ceriodaphnia dubia	0.45	-0.347	NA		76752			
Simocephalus serrulatus	1.34	0.127	89.0	40094602	NA	cited in RED, updated by 10-5- 05 memo*		
Simocephalus serrulatus	1.67	0.223			NA	cited in 10-5-05 memo*		
Daphnia pulex	0.79	-0.102	89.0	40094602	NA	cited in RED, updated by 10-5- 05 memo*		
Daphnia magna	0.83	-0.081	>89.0	109022	NA	cited in RED		
Culex pipiens fatigans	35.0	1.544	NR	5000811	NA	cited in RED		
Gammarus fasciatus	2.0	0.299	89.0	40094602	NA	cited in RED, updated by 10-5- 05 memo*		
Pteronarcys californica	20.49	1.312	89.0	40094602	NA	cited in RED, updated by 10-5- 05 memo*		
	Ceriodaphnia dubia Ceriodaphnia dubia Simocephalus serrulatus Simocephalus serrulatus Daphnia pulex Daphnia magna Culex pipiens fatigans Gammarus fasciatus Pteronarcys	Species Name EC50 (ppb)  Ceriodaphnia dubia 0.21  Ceriodaphnia dubia 0.45  Simocephalus serrulatus 1.34  Simocephalus serrulatus 1.67  Daphnia pulex 0.79  Daphnia magna 0.83  Culex pipiens fatigans 35.0  Gammarus fasciatus 2.0  Pteronarcys californica 20.49	Species Name         EC50 (ppb)         Log 10 EC50           Ceriodaphnia dubia         0.21         -0.678           Ceriodaphnia dubia         0.45         -0.347           Simocephalus serrulatus         1.34         0.127           Simocephalus serrulatus         1.67         0.223           Daphnia pulex magna         0.79         -0.102           Daphnia magna         0.83         -0.081           Culex pipiens fatigans         35.0         1.544           Gammarus fasciatus         2.0         0.299           Pteronarcys californica         20.49         1.312	Species Name         Mean EC50 (ppb)         Log 10 EC50         Substance (% a.i.)           Ceriodaphnia dubia         0.21         -0.678         NA           Ceriodaphnia dubia         0.45         -0.347         NA           Simocephalus serrulatus         1.34         0.127         89.0           Simocephalus serrulatus         1.67         0.223         89.0           Daphnia pulex magna         0.83         -0.081         >89.0           Culex pipiens fatigans         35.0         1.544         NR           Gammarus fasciatus         2.0         0.299         89.0           Pteronarcys californica         20.49         1.312         89.0	Species Name         Mean EC50 (ppb)         Log 10 EC50         Substa nce (% a.i.)         MRID           Ceriodaphnia dubia         0.21         -0.678         NA           Ceriodaphnia dubia         0.45         -0.347         NA           Simocephalus serrulatus         1.34         0.127         89.0         40094602           Simocephalus serrulatus         1.67         0.223         40094602           Daphnia pulex magna         0.83         -0.081         >89.0         40094602           Culex pipiens fatigans         35.0         1.544         NR         5000811           Gammarus fasciatus         2.0         0.299         89.0         40094602           Pteronarcys         -0.299         89.0         40094602	Species Name         Mean (ppb)         Log 10 EC50 (ppb)         Substa nce (% a.i.)         MRID         ECOTOX Number           Ceriodaphnia dubia         0.21         -0.678         NA         76752           Ceriodaphnia dubia         0.45         -0.347         NA         76752           Simocephalus serrulatus         1.34         0.127         89.0         40094602         NA           Simocephalus serrulatus         1.67         0.223         NA         NA           Daphnia pulex nagna         0.79         -0.102         89.0         40094602         NA           Culex pipiens fatigans         35.0         1.544         NR         5000811         NA           Gammarus fasciatus         2.0         0.299         89.0         40094602         NA           Pteronarcys californica         20.49         1.312         89.0         40094602         NA		

Table F.6. Species Mean Acute Values (SMAVs) for freshwater invertebrates.					
Common Name Species Name Log SMA					
waterflea	Ceriodaphnia dubia	-0.512			
daphnid	Simocephalus sp.	0.1749			
daphnid	Daphnia pulex	-0.1024			
daphnid	Daphnia magna	-0.0809			
mosquito larvae	Culex pipiens fatigans	1.5441			
scud	Gammarus fasciatus	0.2989			
stonefly	Pteronarcys sp.	1.3115			

Table F.7. Genus Mean Acute Values (GMAVs) for freshwater invertebrates.						
Common Name	Species Name	Log10 GMAV	GMAV EC50	Sensitivity Rank	Rank on curve	
waterflea	Ceriodaphnia dubia	-0.512	0.31	1	0.00	
daphnid	Simocephalus	0.1749	1.50	3	0.40	
daphnid	Daphnia	-0.0916	0.81	2	0.20	
mosquito larvae	Culex	1.5441	35.00	6	1.00	
scud	Gammarus	0.2989	1.99	4	0.60	
stonefly	Pteronarcys	1.3115	20.49	5	0.80	
Genus Mean for All:		0.4542	10			
Genus Standard Devi	ation for all:	0.8071	14			

Table F.8. Calculation of species sensitivity distribu	Table F.8. Calculation of species sensitivity distribution curve for freshwater invertebrates.					
Proportion	$\mathbf{Z}_{\mathrm{P}}$	Log10 point	Point Estimate			
0.05	-1.645	-0.87343	0.13			
0.10	-1.282	-0.58046	0.26			
0.20	-0.842	-0.22533	0.60			
0.25	-0.675	-0.09016	0.81			
0.30	-0.524	0.031322	1.07			
0.40	-0.253	0.250045	1.78			
0.50	0	0.45424	2.85			
0.60	0.253	0.658436	4.55			
0.70	0.524	0.877159	7.54			
0.75	0.675	0.99903	9.98			
0.80	0.842	1.133816	13.61			
0.90	1.282	1.488938	30.83			
0.95	1.645	1.781914	60.52			
$Z_P = (Log 10 \ LC50 - fish \ mean \ GMAV)/(fish \ std \ GMAV)$						

Table F.9. Sun	Table F.9. Summary of acute oral toxicity of diazinon to birds.						
Common Name	Species Name	Mean LD50 (mg	Log 10 LD50	Test Substance (% a.i.)	MRID/ Accession	Comments	
Red-winged	Agelaius	a.i./kg)	LD50	(% a.l.)	Accession	Comments	
blackbird	phoeniceus	3.2	0.505	>90.0	20560	cited in RED	
Diackond	Anas	3.2	0.303	>30.0	20300	Cited III KED	
Mallard Duck	platyrhynchos	6.38	0.805	97.0	FEODIA06	cited in RED	
Manard Duck	Anas	0.36	0.803	91.0	TEODIAGO	Citcu iii KED	
Mallard Duck	platyrhynchos	6.66	0.823	86.6	FEODIA04	cited in RED	
Wanara Buck	Anas	0.00	0.023	00.0	T LODINO+	cited in RED	
Mallard Duck	platyrhynchos	3.54	0.549	89.0	160000	cited in RED	
Wanara Back	Anas	3.31	0.5 17	07.0	100000	Cited in ICEB	
Mallard Duck	platyrhynchos	1.44	0.158	88.2	40895301	cited in RED	
1141414141414	Anas	1111	0.120	00.2	Grimes and	Citto in Tt22	
Mallard Duck	platyrhynchos	14	1.146	86.6	Jaber 1987	cited in RED	
	Anas						
Mallard Duck	platyrhynchos	8.7	0.940	89.2	FEODIA02	cited in RED	
						cited in RED.	
	Anas					Value is	
Mallard Duck	platyrhynchos	3.16	0.500	86.6	FEODIA03	actually <3.16.	
						cited in RED.	
	Anas					Value is	
Mallard Duck	platyrhynchos	3.16	0.500	97.0	FEODIA05	actually <3.16.	
Mallard Duck	Anas platyrhynchos	6	0.778	86.6	FEODIA01	cited in RED. Value is actually >6 and <24.6.	
Canada goose	Branta canadensis	6	0.778	86.6	FEODIA07	cited in RED. Value is actually >6.0 <39.3	
	Branta						
Canada goose	canadensis	6.16	0.790	86.6	FEODIA08	cited in RED	
Northern	Colinus						
bobwhite quail	virginianus	10	1.000	99.0	ROODI002	cited in RED	
Northern	Colinus						
bobwhite quail	virginianus	5.2	0.716	89.0	19015	cited in RED	
brown headed							
cowbird	Molothrus ater	69	1.839	88.2	40895303	cited in RED	
**	Passer		0.0=-		207.50		
House sparrow	domesticus	7.5	0.875	>90	20560	cited in RED	
Ring-necked	Phasianus	4.22	0.636	00.0	1,00000	'. 1' DED	
pheasant	colchicus	4.33	0.636	89.0	160000	cited in RED	

Table F.10. Species Mean Acute Values (SMAVs)				
Common Name	Species Name	Log10 SMAV		
Red-winged blackbird	Agelaius phoeniceus	0.5051		
Mallard Duck	Anas platyrhunchos	0.6888		
Canada goose	Branta canadensis	0.7839		
Northern bobwhite quail	Colinus virginianus	0.8580		
brown headed cowbird	Molothrus ater	1.8388		
House sparrow	Passer domesticus	0.8751		
Ring-necked pheasant	Phasianus colchicus	0.636		

Table F.11. Genus Mean Acute Values (GMAVs)					
Common Name	Species Name	Log10 GMAV	GMAV LC50	Sensitivity Rank	Rank on curve
Red-winged blackbird	Agelaius	0.5051	3	1	0.00
Mallard Duck	Anas	0.6888	5	3	0.33
Canada goose	Branta	0.7839	6	4	0.50
Northern bobwhite quail	Colinus	0.8580	7	5	0.67
brown headed cowbird	Molothrus	1.8388	69	7	1.00
House sparrow	Passer	0.8751	8	6	0.83
Ring-necked pheasant	Phasianus	0.6365	4	2	0.17
Genus Mean for All:		0.8837	15		
Genus Standard Deviation for	or all:	0.4407	24		

Table F.12. Calculation of species sensitivity distribution curve					
Proportion	$\mathbf{Z}_{\mathtt{P}}$	Log10 point	Point Estimate		
0.05	-1.645	0.158748	1		
0.10	-1.282	0.318731	2		
0.20	-0.842	0.512649	3		
0.25	-0.675	0.586464	4		
0.30	-0.524	0.6528	4		
0.40	-0.253	0.772236	6		
0.50	0	0.883739	8		
0.60	0.253	0.995243	10		
0.70	0.524	1.114679	13		
0.75	0.675	1.181228	15		
0.80	0.842	1.254829	18		
0.90	1.282	1.448748	28		
0.95	1.645	1.608731	41		
$Z_P = (Log 10 \ LC 50 - fish \ mean \ GMAV)/(fish \ std \ GMAV)$	.V)				

### Appendix G. The Risk Quotient Method and Levels of Concern

The Risk Quotient Method is the means used by EFED to integrate the results of exposure and ecotoxicity data. For this method, Risk Quotients (RQs) are calculated by dividing exposure estimates by the acute and chronic ecotoxicity values (i.e., RQ = EXPOSURE/TOXICITY). These RQs are then compared to OPP's levels of concern (LOCs). These LOCs are criteria used by OPP to indicate potential risk to non-target organisms and the need to consider regulatory action. EFED has defined LOCs for acute risk, potential restricted use classification, and for endangered species.

The criteria indicate that a pesticide used as directed has the potential to cause adverse effects on non-target organisms. LOCs currently address the following risk presumption categories:

- (1) acute there is a potential for acute risk; regulatory action may be warranted in addition to restricted use classification;
- (2) acute restricted use the potential for acute risk is high, but this may be mitigated through restricted use classification;
- (3) acute endangered species the potential for acute risk to endangered species is high, regulatory action may be warranted; and
- (4) chronic risk the potential for chronic risk is high, regulatory action may be warranted.

Currently, EFED does not perform assessments for chronic risk to plants, acute or chronic risks to non-target insects, or chronic risk from granular/bait formulations to mammalian or avian species.

The ecotoxicity test values (i.e., measurement endpoints) used in the acute and chronic RQs are derived from required studies. Examples of ecotoxicity values derived from short-term laboratory studies that assess acute effects are: (1) LC50 (fish and birds), (2) LD50 (birds and mammals), (3) EC50 (aquatic plants and aquatic invertebrates), and (4) EC25 (terrestrial plants). Examples of toxicity test effect levels derived from the results of long-term laboratory studies that assess chronic effects are: (1) the Lowest Observed Adverse Effect Concentration (LOAEC) (birds, fish, and aquatic invertebrates), and (2) the No Observed Adverse Effect Concentration (NOAEC) (birds, fish and aquatic invertebrates). The NOAEC is generally used as the ecotoxicity test value in assessing chronic effects. Risk presumptions, along with the corresponding RQs and LOCs are summarized in Table G-1.

Table G-1. Age	ncy risk quotient (RQ) metrics and levels of concern (LOC)	per risk class.	
Risk Class	Risk Description	RQ	LOC
	Aquatic Animals (fish and invertebr	ates)	
Acute	Potential for effects to non-listed animals from acute exposures	Peak EEC/LC <sub>50</sub> <sup>1</sup>	0.5
Acute Restricted Use	Potential for effects to animals from acute exposures Risks may be mitigated through restricted use classification	Peak EEC/LC <sub>50</sub> <sup>1</sup>	0.1
Acute Listed Species	Listed species may be potentially affected by acute exposures	Peak EEC/LC <sub>50</sub> <sup>1</sup>	0.05
Chronic	Potential for effects to non-listed and listed animals from	60-day EEC/NOEC (fish)	1
	chronic exposures	21-day EEC/NOEC (invertebrates)	
	Terrestrial Animals (mammals and b	sirds)	
Acute	Potential for effects to non-listed animals from acute exposures	EEC <sup>2</sup> /LC <sub>50</sub> (Dietary)	0.5
		EEC/LD <sub>50</sub> (Dose)	
Acute Restricted Use	Potential for effects to animals from acute exposures Risks may be mitigated through restricted use classification	EEC <sup>2</sup> /LC <sub>50</sub> (Dietary)	0.2
		EEC/LD <sub>50</sub> (Dose)	
Acute Listed Species	Listed species may be potentially affected by acute exposures	EEC <sup>2</sup> /LC <sub>50</sub> (Dietary)	0.1
		EEC/LD <sub>50</sub> (Dose)	1
Chronic	Potential for effects to non-listed and listed animals from chronic exposures	EEC <sup>2</sup> /NOAEC	1
	Plants		
Non-Listed	Potential for effects to non-target, non-listed plants from exposures	EEC/ EC <sub>25</sub>	1
Listed Plant	Potential for effects to non-target, listed plants from exposures	EEC/ NOEC	1
		EEC/ EC <sub>05</sub>	
<sup>1</sup> LC <sub>50</sub> or EC <sub>50</sub> . <sup>2</sup>	Based on upper bound Kenaga values.		

### Appendix H. List of citations accepted and rejected by ECOTOX criteria

The citations in this appendix were accepted by ECOTOX. Citations include the ECOTOX Reference number. References in section H.1 those relevant to diazinon which were cited within this risk assessment. References in section H.2 were those relevant to diazinon which were not cited within the risk assessment. References in section H.3 those relevant to degredates of diazinon which were cited within this risk assessment. References in section H.4 were those relevant to degredates of diazinon which were not cited within the risk assessment. In order to be included in the ECOTOX database, papers must meet the following minimum criteria:

- the toxic effects are related to single chemical exposure;
- the toxic effects are on an aquatic or terrestrial plant or animal species;
- there is a biological effect on live, whole organisms;
- a concurrent environmental chemical concentration/dose or application rate is reported;
   and
- there is an explicit duration of exposure.

Section H.5 includes the list of exclusion terms and descriptions for citations not accepted by ECOTOX. For diazinon, there were hundreds of references that were not accepted by ECOTOX for one or more of the reasons included in section H.5. A full list of the citations reviewed and rejected by the criteria for ECOTOX is listed in section H.6.

# H.1. ECOTOX accepted references, relevant to diazinon, cited within the risk assessment or used for deriving species sensitivity distributions

664	Allison DT; Hermanutz RO; (1977) Toxicity of Diazinon to Brook Trout and Fathead Minnows. (): 69 p.(Author Communication Used)
821	Ankley GT;Dierkes JR;Jensen DA;Peterson GS; (1991) Piperonyl Butoxide as a Tool in Aquatic Toxicological Research with Organophosphate Insecticides. 21(3): 266-274.
885	Sanders HO; (1969) Toxicity of Pesticides to the Crustacean Gammarus lacustris. (): 18 p. (Author Communication Used)(Used with Reference 732) (Publ in Part As 6797)
4009	Fernandez-Casalderrey A;Ferrando MD;Andreu-Moliner E; (1994) Effect of Sublethal Concentrations of Pesticides on the Feeding Behavior of Daphnia magna. 27(1): 82-89.
5311	Dennis WH Jr.;Rosencrance AB;Randall WF; (1980) Acid Hydrolysis of Military Standard Formulations of Diazinon. 15(1): 47-60.
6221	Sancho E;Ferrando M;Andreu E;Gamon M; (1992) "Acute Toxicity, Uptake and Clearance of Diazinon by the European Eel, Anguilla anguilla L". 27(2): 209-221.
6449	Dortland RJ; (1980) Toxicological Evaluation of Parathion and Azinphosmethyl in Freshwater Model Ecosystems. 898(): 1-112 (Author Communication Used).
6728	Sancho E;Ferrando MD;Gamon M;Andreu-Moliner E; (1992) Organophosphorus Diazinon Induced Toxicity in the Fish Anguilla anguilla L. 103(2): 351-356.
7004	Sancho E;Ferrando MD;Andreu E;Gamon M; (1993) Bioconcentration and Excretion of Diazinon by Eel.
11055	Ferrando MD;Sancho E;Andreu-Moliner E; (1991) Comparative Acute Toxicities of Selected Pesticides to

Anguilla anguilla. B26(5/6): 491-498.

12859 Geiger DL; Call DJ; Brooke LT; (1988) Acute Toxicities of Organic Chemicals to Fathead Minnows (Pimephales promelas) Volume IV. (): 355-. 13000 Beliles R; (1965) "Diazinon Safety Evaluation on Fish and Wildlife: Bobwhite Quail, Goldfish, Sunfish, and Rainbow Trout". (): -. 13005 Posner S; Reimer S; (1970) The Determination of TLM Values of Diazinon on Fingerling Fish. (): -. 15462 Jarvinen AW; Tanner DK; (1982) Toxicity of Selected Controlled Release and Corresponding Unformulated Technical Grade Pesticides to the Fathead Minnow Pimephales promelas. 27(3): 179-195. 15687 Sancho E; Ferrando MD; Gamon M; Andreu-Moliner E; (1994) Uptake and Clearance of Diazinon in Different Tissues of the European Eel (Anguilla anguilla L.). 7(1): 41-49. 16043 Norberg-King TJ; (1987) "Toxicity Data on Diazinon, Aniline, 2,4-Dimethylphenol". (): -. 16547 Oh HS;Lee SK;Kim YH;Roh JK; (1991) Mechanism of Selective Toxicity of Diazinon to Killifish (Oryzias latipes) and Loach (Misgurnus anguillicaudatus). (): 343-353. Bailey HC:DiGiorgio C:Kroll K:Miller JL:Hinton DE:Starrett G: (1996) "Development of Procedures for 16844 Identifying Pesticide Toxicity in Ambient Waters: Carbofuran, Diazinon, Chlorpyrifos". 15(6): 837-845. 18129 Werner I; Nagel R; (1997) "Stress Proteins HSP60 and HSP70 in Three Species of Amphipods Exposed to Cadmium, Diazinon, Dieldrin and Fluoranthene". 16(11): 2393-2403. 18190 Bailey HC;Miller JL;Miller MJ;Wiborg LC;Deanovic L;Shed T; (1997) Joint Acute Toxicity of Diazinon and Chlorpyrifos to Ceriodaphnia dubia. 16(11): 2304-2308. 18945 Shigehisa H;Shiraishi H; (1998) Biomonitoring with Shrimp to Detect Seasonal Change in River Water Toxicity. 17(4): 687-694. 19300 Harris ML;Bishop CA;Struger J;Ripley B;Bogart JP; (1998) The Functional Integrity of Northern Leopard Frog (Rana pipiens) and Green Frog (Rana clamitans) Populations in Orchard Wetlands. II. Effects of Pesticides and Eutrophic Conditions on Early Life Sta 45088 Alam MGM; Al-Arabi SAM; Halder GC; Mazid MA; (1995) Toxicity of Diazinon to the Fry of Indian Major Carp Cirrhina mrigala (Hamilton). 23(2): 183-186. 53845 Sanchez M; Ferrando MD; Sancho E; Andreu E; (1999) Assessment of the Toxicity of a Pesticide with a Two-Generation Reproduction Test Using Daphnia magna. 124(3): 247-252. 54582 Stuijfzand SC;Poort L;Greve GD;Van der Geest HG;Kraak MHS; (2000) "Variables Determining the Impact of Diazinon on Aquatic Insects: Taxon, Developmental Stage, and Exposure Time". 19(3): 582-587. 55077 Van der Geest HG; Greve GD; Kroon A; Kuijl S; Kraak MHS; Admiraal W; (2000) "Sensitivity of Characteristic Riverine Insects, the Caddisfly Cyrnus trimaculatus and the Mayfly Ephoron virgo, to Copper and 61180 Brooke L; (1989) "February 15th Memo to R.Spehar, U.S.EPA, Duluth, MN. Results of Freshwater Exposures with the Chemicals 2,4-D and Diazinon to the Larval Leopard Frog (Rana pipiens), Juvenile 62060 Bailey HC; Elphick JR; Krassoi R; Lovell A; (2001) Joint Acute Toxicity of Diazinon and Ammonia to Ceriodaphnia dubia. 20(12): 2877-2882. Scholz NL; Truelove NK; French BL; Berejikian BA; Quinn TP; Casillas E; Collier TK; (2000) Diazinon 62247 Disrupts Antipredator and Homing Behaviors in Chinook Salmon (Oncorhynchus tshawytscha).57(9): 64955 Anderson TD;Lydy MJ; (2002) Increased Toxicity to Invertebrates Associated with a Mixture of Atrazine and Organophosphate Insecticides. 21(7): 1507-1514.

Werner I;Deanovic LA;Hinton DE;Henderson JD;De Oliveira GH;Wilson BW;Krueger W;Wallender 65773 WW;Oliver M (2002) "Toxicity of Stormwater Runoff After Dormant Spray Application of Diazinon and Esfenvalerate (Asana) in a French Prune Orchard, Glenn County, Calif 66119 Parkhurst MA; Whelan G; Onishi Y; Olsen AR; (1981) "Simulation of the Migration, Fate, and Effects of Diazinon in Two Monticello Stream Channels". (): 112 p.-. Van der Geest HG;Soppe WJ;Greve GD;Kroon A;Kraak MHS; (2002) Combined Effects of Lowered 66378 Oxygen and Toxicants (Copper and Diazinon) on the Mayfly Ephoron virgo, 21(2): 431-436. Mustafa M; Anjum F; Qadri SSH; (1982) "A Technique to Evaluate Acute Toxicity of Insecticide (Technical 66476 and Formulation) to Fresh-Water Fish, Tilapia mossambica". 24(): 90-92. 71888 Banks KE; Wood SH; Matthews C; Thuesen KA; (2003) Joint Acute Toxicity of Diazinon and Copper to Ceriodaphnia dubia. 22(7): 1562-1567. 76752 Banks KE; Turner PK; Wood SH; Matthews C; () Increased Toxicity to Ceriodaphnia dubia in Mixtures of Atrazine and Diazinon at Environmentally Realistic Concentrations. 60(1): 28-36. 82750 Pincetich CA; (2004) Metabolic Effects of Pesticide Exposure During Embryogenesis in Medaka (Oryzias latipes) and Chinook Salmon (Oncorhynchus tshawytscha). (): 139 p.-. 84007 Brasel JM; (2005) Developing the Homing Pigeon (Columba livia) to Assess the Effects of Xenobiotics on Avian Species. (): 111 p.-. 84761 Viant MR:Pincetich CA:Tieerdema RS: (2006) "Metabolic Effects of Dinoseb, Diazinon and Esfenvalerate in Eyed Eggs and Alevins of Chinook Salmon (Oncorhynchus tshawytscha) Determined by 1H NMR 85464 Hall LW Jr.; Anderson RD; (2005) "Acute Toxicity of Diazinon to the Amphipod, Gammarus pseudolimnaeus: Implications for Water Quality Criteria Development". 74(1): 94-99. 85626 Niforos J;Lim RP; (1998) "Toxicity of Diazinon, an Organophosphorus Pesticide, to the Eastern Rainbow Fish, Melanotaenia duboulayi". 26(): 2296-2301.

## H.2. ECOTOX accepted references, relevant to diazinon, not utilized or cited within this risk assessment since endpoints were less sensitive than existing data.

- 9 Sinha PK;Pal S;Kumar K;Triar SB;Singh R; (1986) "Thiodicarb, an Effective Molluscicide for Grazer Snails of Blue Green Algae". 10(1): 116-118.
- Ankley GT;Collyard SA; (1995) Influence of Piperonyl Butoxide on the Toxicity of Organophosphate Insecticides to Three Species of Freshwater Benthic Invertebrates. 110(2): 149-155.
- Robertson JB;Mazzella C; (1989) Acute Toxicity of the Pesticide Diazinon to the Freshwater Snail Gillia altilis. 42(3): 320-324.
- Ansari BA;Kumar K; (1988) "Diazinon Toxicity: Effect on Protein and Nucleic Acid Metabolism in the Liver of Zebrafish, Brachydanio rerio (Cyprinidae)". 76(1): 63-68.
- 742 Khattat F;Farley S; (1976) Acute Toxicity of Certain Pesticides to Acartia tonsa Dana. (): -.
- Sanders HO; Cope OB; (1968) The Relative Toxicities of Several Pesticides to Naiads of Three Species of Stoneflies. 13(1): 112-117 (Author Communication Used) (Publ in Part As 6797).
- Hatakeyama S;Sugaya Y; (1989) A Freshwater Shrimp (Paratya compressa improvisa) as a Sensitive Test Organism to Pesticides. 59(4): 325-336.
- Weiss CM; (1961) Physiological Effect of Organic Phosphorus Insecticides on Several Species of Fish.

2164 Kanazawa J; (1975) "Uptake and Excretion of Organophosphorus and Carbamate Insecticides by Fresh Water Fish, Motsugo, Pseudorasbora parva". 14(3): 346-352 (Author Communication Used). 2904 Hilsenhoff WL; (1959) The Evaluation of Insecticides for the Control of Tendipes plumosus (Linnaeus). 3043 Rompas RM;Kobayashi K;Oshima Y;Imada N;Yamato K;Mitsuyasu Y; (1989) Relationship Between Toxicity and Acetylcholinesterase Inhibition of Some Thiono- and Oxo-Form Organophosphates in Tiger Shrimp Larvae at Different Stages. 55(4): 669-673. 3129 Tsuda T; Aoki S; Kojima M; Harada H; (1989) "Bioconcentration and Excretion of Diazinon, IBP, Malathion and Fenitrothion by Willow Shiner". 24(): 185-190. Ariyoshi T;Shiiba S;Hasegawa H;Arizono K; (1990) "Profile of Metal-Binding Proteins and Heme 3167 Oxygenase in Red Carp Treated With Heavy Metals, Pesticides and Surfactants", 44(4): 643-649. 3364 Arab AEE; Attar A; Ballhorn L; Freitag D; Korte F; (1990) Behavior of Diazinon in a Perch Species. 21(1/2): 3450 Tsuda T; Aoki S; Kojima M; Harada H; (1990) "Bioconcentration and Excretion of Diazinon, IBP, Malathion and Fentrothion by Carp". 96(1): 23-26. 3860 Keizer J;D'Agostino G;Vittozzi L; (1991) The Importance of Biotransformation in the Toxicity of Xenobiotics to Fish. I. Toxicity and Bioaccumulation of Diazinon in Guppy (Poecilia reticulata) and Zebra Snell TW; Moffat BD; (1992) A 2-d Life Cycle Test with the Rotifer Brachionus calyciflorus. 11(9): 1249-3963 4055 Lee SK; Freitag D; Steinberg C; Kettrup A; Kim YH; (1993) Effects of Dissolved Humic Materials on Acute Toxicity of Some Organic Chemicals to Aquatic Organisms. 27(2): 199-204. Nimmo DR; Hamaker TL; Matthews E; Moore JC; (1981) An Overview of the Acute and Chronic Effects of 4891 First and Second Generation Pesticides on an Estuarine Mysid. (): 3-19. Fernandez-Casalderrey A:Ferrando MD:Andreu-Moliner E: (1992) Effect of Sublethal Diazinon 5079 Concentrations on the Demographic Parameters of Brachionus calveiflorus Pallas (Rotifera), 48(2): 202-5096 Fernandez-Casalderrey A; Ferrando MD; Andreu-Moliner E; (1992) Acute Toxicity of Several Pesticides to Rotifer (Brachionus calyciflorus). 48(1): 14-17 (OECDG Data File). Rettich F; (1979) "Laboratory and Field Investigations in Czechoslovakia with Fenitrothion, Pirimiphos-5162 Methyl, Temephos and Other Organophosphorous Larvicides". 39(2): 320-328 (Author Communication 5169 Sakr SA; Gabr SA; El Saadany MM; (1991) Effect of Diazinon on Freeze-Fracture Images of Microvilli of Intestinal Epithelial Cells of Tilapia nilotica. 30(): 268-275. 5291 Sastry KV; Sharma K; (1980) Diazinon Effect on the Activities of Brain Enzymes From Ophiocephalus (Channa) punctatus. 24(3): 326-332. Norberg-King TJ; (1989) An Evaluation of the Fathead Minnow Seven-Day Subchronic Test For Estimating 5313 Chronic Toxicity. 8(11): 1075-1089. Anees MA; (1974) "Susceptibility of a Freshwater Teleost Channa punctatus to Acute, Sublethal and 5583 Chronic Levels of Organophosphorus Insecticides". 13(02): 103 p.-. 5604 Goodman LR; Hansen DJ; Coppage DL; Moore JC; Matthews E; (1979) "Diazinon: Chronic Toxicity to, and Brain Acetylcholinesterase Inhibition in, the Sheepshead Minnow, Cyprinodon variegatus". 108(5): 479-5648 Anees MA; (1975) Acute Toxicity of Four Organophosphorus Insecticides to a Freshwater Teleost Channa punctatus (Bloch). 7(2): 135-141. 5702 Fernandez-Casalderrey A;Ferrando MD;Andreu-Moliner E; (1992) Endosulfan and Diazinon Toxicity to the

Freshwater Rotifer Brachionus calyciflorus. 27(2): 155-164.

5995 Duursma EK; Hanafi A; (1975) Use of Pesticides in Brackish Water Ponds. 1. Effects of Diazinon on Fish and Shrimp. 1(2): 56-68. Fernandez-Casalderrey A;Ferrando MD;Andreu-Moliner E; (1992) Filtration and Ingestion Rates of 6725 Brachionus calveiflorus After Exposure to Endosulfan and Diazinon. 103(2): 357-361. 6797 Mayer FL Jr.; Ellersieck MR; (1986) Manual of Acute Toxicity: Interpretation and Data Base for 410 Chemicals and 66 Species of Freshwater Animals. (): 505 p. (USGS Data File)-. 7085 Alam MK; Maughan OE; (1992) "The Effect of Malathion, Diazinon, and Various Concentrations of Zinc, Copper, Nickel, Lead, Iron, and Mercury on Fish". 34(3): 225-236. 7253 Keizer J;D'Agostino G;Nagel R;Gramenzi F;Vittozzi L; (1993) Comparative Diazinon Toxicity in Guppy and Zebra Fish: Different Role of Oxidative Metabolism. 12(): 1243-1250. 7375 Verma SR;Bansal SK;Gupta AK;Pal N;Tyagi AK;Bhatnagar MC;Kumar K;Dalela RC; (1979) "Acute Toxicity of Twenty Three Pesticides to a Fresh Water Teleost, Saccobranchus fossilis". (): 481-497. 7581 Morgan HG; (1976) Sublethal Effects of Diazinon on Stream Invertebrates. (): 38(1):125 (1977)-. 7775 Federle PF; Collins WJ; (1976) Insecticide Toxicity to Three Insects from Ohio Ponds. 76(1): 19-24. 8259 Rogge RW;Drewes CD; (1993) "Assessing Sublethal Neurotoxicity Effects in the Freshwater Oligochaete, Lumbriculus variegatus". 26(1/2): 73-90. 9184 Worthley EG; Schott CD; (1972) The Comparative Effects of CS and Various Pollutants on Fresh Water Phytoplankton Colonies of Wolffia papulifera Thompson. (): 29 p. (U.S.NTIS AD-736336)-. 9935 Kaur K; Toor HS; (1977) Toxicity of Pesticides to Embryonic Stages of Cyprinus carpio communis Linn. 10179 Ceron JJ:Ferrando MD:Sancho E:Gutierrez-Panizo C:Andreu-Moliner E: (1996) Effects of Diazinon Exposure on Cholinesterase Activity in Different Tissues of European Eel (Anguilla anguilla). 35(3): 222-10440 Han R;Shim JC;Hong HK;Lee JS;Cho HW;Kim CL; (1981) Studies on Control Effects of Pesticide Applications Against the Vector Mosquito Larvae in Rice Fields in Korea. 11(2): 39-45. 10586 Sastry KV; Malik PV; (1982) Acute and Chronic Effects of Diazinon on the Activities of Three Dehydrogenases in the Digestive System of a Freshwater Teleost Fish Channa punctatus. 10(1): 55-59. Vigfusson NV:Vvse ER:Pernsteiner CA:Dawson RJ: (1983) "In Vivo Induction of Sister-Chromatid 11628 Exchange in Umbra limi by the Insecticides Endrin, Chlordane, Diazinon and Guthion". 118(): 61-68. 12555 Ansari BA; Aslam M; Kumar K; (1987) "Diazinon Toxicity: Activities of Acetylcholinesterase and Phosphatases in the Nervous Tissue of Zebra Fish, Brachydanio rerio (Cyprinidae)". 15(3): 301-306. 12999 Bathe R;Ullman L;Sachsse K;Hess R; (1975) Relationship between Toxicity to Fish and to Mammals: A Comparative Study Under Defined Laboratory Conditions. (): 1 p. (CBI Data)-. 13002 Hughes J; (1988) The Toxicity of Diazinon Technical to Selenastrum capricornutum. (): -. 13200 Chakrabarty P;Banerjee V; (1988) Effect of Sublethal Toxicity of Three Organophosphorus Pesticides on the Peripheral Hemogram of the Fish Channa punctatus. 6(1): 151-158. 13393 Iqbal J;Mufti SA; (1991) "Effect of Diazinon on Egg Hatchability in a Freshwater Teleost, Colisa fasciata". 13398 Stevens MM; (1992) Toxicity of Organophosphorus Insecticides to Fourth-Instar Larvae of Chironomus tepperi Skuse (Diptera: Chironomidae). 31(): 335-337. 13513 Cripe GM; (1994) Comparative Acute Toxicities of Several Pesticides and Metals to Mysidopsis bahia and Postlarval Penaeus duorarum. 13(11): 1867-1872.

13554 Collyard SA; Ankley GT; Hoke RA; Goldenstein T; (1994) "Influence of Age on the Relative Sensitivity of Hyalella azteca to Diazinon, Alkylphenol Ethoxylates, Copper, Cadmium, and Zinc". 26(1): 110-113. 13660 Juchelka CM; Snell TW; (1994) Rapid Toxicity Assessment Using Rotifer Ingestion Rate. 26(4): 549-554. 13696 Chu KH; Lau PY; (1994) "Effects of Diazinon, Malathion, and Paraquat on the Behavioral Response of the Shrimp Metapenaeus ensis to Chemoattractants". 53(1): 127-133. 13716 Tsuda T; Aoki S; Inoue T; Kojima M; (1995) "Accumulation and Excretion of Diazinon, Fenthion and Fenitrothion by Killifish: Comparison of Individual and Mixed Pesticides". 29(2): 455-458. 13793 Villar D;Gonzalez M;Gualda MJ;Schaeffer DJ; (1994) Effects of Organophosphorus Insecticides on Dugesia tigrina: Cholinesterase Activity and Head Regeneration. 52(2): 319-324. 14634 Tripathi G; (1992) "Relative Toxicity of Aldrin, Fenvalerate, Captan and Diazinon to the Freshwater Food-Fish, Clarias batrachus". 5(): 33-38. 14767 Matida Y;Kawasaki N; (1958) Study on the Toxicity of Agricultural Control Chemicals in Relation to Freshwater Fisheries Management No. 2. Toxicity of Agricultural Insecticides to Daphnia carinata King. 15179 Verma SR;Bansal SK;Gupta AK;Pal N;Tyagi AK;Bhatnagar MC;Kumar V;Dalela RC; (1982) "Bioassay Trials with Twenty Three Pesticides to a Fresh Water Teleost, Saccobranchus fossilis". 16(5): 525-529. 15520 Sastry KV; Malik PV; (1982) "Histopathological and Enzymological Alterations in the Digestive System of a Freshwater Teleost Fish, Heteropneustes fossilis, Exposed Acutely and Chronically to Diazinon". 6(3): 15608 Sastry KV; Sharma K; (1981) Diazinon-Induced Hematological Changes in Ophiocephalus (Channa) punctatus. 5(2): 171-176. 15975 Arthur JW; Zischke JA; Allen KN; Hermanutz RO; (1983) Effects of Diazinon on Macroinvertebrates and Insect Emergence in Outdoor Experimental Channels. 4(4): 283-302. 16059 Burbank SE; Snell TW; (1994) Rapid Toxicity Assessment Using Esterase Biomarkers in Brachionus calyciflorus (Rotifera). 9(3): 171-178 (OECDG Data File). 16398 Sastry KV; Malik PV; (1981) "Acute and Chronic Effects of Diazinon on Some Enzymes in Certain Tissues of a Fresh Water Teleost Fish, Channa punctatus (Bloch)". 2(3): 19-28. 16753 Giddings JM; Biever RC; Annunziato MF; Hosmer AJ; (1996) Effects of Diazinon on Large Outdoor Pond Microcosms. 15(5): 618-629. 17156 Alam Ansari B;Kumar Mishra R;Aslan M;Kumar K; (1988) "Diazinon Toxicity: Effect on the Nucleic Acid and Protein Metabolism in the Brain of Zebrafish, Brachydanio rerio (Cyprinidae)". 12(): 7-11. 17470 Hanazato T; (1991) Pesticides as Chemical Agents Inducing Helmet Formation in Daphnia ambigua. 26(): 17484 Dutta HM;Qadri N;Ojha J;Singh NK;Adhikari S;Munshi JSD;Roy PK; (1997) "Effect of Diazinon on Macrophages of Bluegill Sunfish, Lepomis macrochirus: A Cytochemical Evaluation". 58(): 135-141. 17689 Snell TW; (1991) New Rotifer Bioassays for Aquatic Toxicology. (): 29 p.(U.S.NTIS AD-A258002)-. 17878 Norberg-King TJ; (1987) An Evaluation of the Fathead Minnow Seven-Day Subchronic Test for Estimating Chronic Toxicity. (): 80 p.-. 17957 Wong CK; (1997) Effects of Diazinon on Some Population Parameters of Moina macrocopa (Cladocera). 18363 Guzzella L;Gronda A;Colombo L; (1997) Acute Toxicity of Organophosphorus Insecticides to Marine Invertebrates. 59(): 313-320. 18398 Tsuda T;Kojima M;Harada H;Nakajima A;Aoki S; (1997) "Acute Toxicity, Accumulation and Excretion of

	Organophosphorous Insecticides and Their Oxidation Products in Killifish". 35(5): 939-949.
18872	Fernandez-Casalderrey A;Ferrando MD;Andreu-Moliner E; (1995) "Chronic Toxicity of Diazinon to Daphnia magna: Effects on Survival, Reproduction and Growth". 49(1/2): 25-32.
20083	Morale A;Coniglio L;Angelini C;Cimoli G;Bolla A;Alleteo D;Russo P;Falugi C; (1998) "Biological Effects of a Neurotoxic Pesticide at Low Concentrations on Sea Urchin Early Development, a Terathogenic Assay".
20217	Van der Geest HG;Greve GD;De Haas EM;Scheper BB;Kraak MHS;Stuijfzand SC;K.H.Augustijn;W.Admiraal; (1999) Survival and Behavioral Responses of Larvae of the Caddisfly Hydropsyche angustipennis to Copper and Diazinon. 18(9): 1965-1971.
26089	Stephenson GR;Phatak SC;Makowski RI;Bouw WJ; (1980) Phytotoxic Interactions Involving Metribuzin and Other Pesticides in Tomatoes. 60(): 167-175.
26281	Pick FE; Van Dyk LP; (1978) Phytotoxicity and Persistence of Ultra-Low-Volume Applications of Fenitrothion and Diazinon on Wheat. 10(): 43-47.
35027	Balcomb R;Stevens R;Bowen II C; (1984) Toxicity of 16 Granular Insecticides to Wild-Caught Songbirds.
35106	Cranmer JS; Avery DL; Grady RR; Kitay JI; (1978) "Postnatal Endocrine Dysfunction Resulting from Prenatal Exposure to Carbofuran, Diazinon, or Chlordane". 2(): 357-369.
35214	Heath RG;Spann JW;Hill EF;Kreitzer JF; (1972) Comparative Dietary Toxicities of Pesticides to Birds. ():
35243	Hill EF;Heath RG;Spann JW;Williams JD; (1975) Lethal Dietary Toxicities of Environmental Pollutants to Birds. 191(): 1-61.
35249	Hoffman DJ; Albers PH; (1984) "Evaluation of Potential Embryotoxicity and Teratogenicity of 42 Herbicides, Insecticides, and Petroleum Contaminants to Mallard Eggs". 13(): 15-27.
35250	Hoffman DJ;Eastin Jr WC; (1981) "Effects of Malathion, Diazinon, and Parathion on Mallard Embryo Development and Cholinesterase Activity". 26(): 472-485.
35482	Stromborg KL; (1981) Reproductive Tests of Diazinon on Bobwhite Quail. (): 19-30.
37077	Henderson JD; Yamamoto JT; Fry DM; Seiber JN; Wilson BW; (1994) Oral and Dermal Toxicity of Organophosphate Pesticides in the Domestic Pigeon (Columba livia). 52(): 633-640.
37111	Hill EF;Camardese MB; (1984) Toxicity of Anticholinesterase Insecticides to Birds: Technical Grade Versus Granular Formulations. 8(6): 551-563.
37112	Hill EF; Camardese MB; Heinz GH; Spann JW; DeBevec AB; (1984) Acute Toxicity of Diazinon Is Similar for Eight Stocks of Bobwhite. 3(): 61-66.
37406	Kar PP;Matin MA; (1971) Duration of Diazinon Induced Changes in the Brain Acetylcholine of Rats. 3(4):
37756	Lox CD; (1983) Effects of Acute Pesticide Poisoning on Blood Clotting in the Rat. 7(): 451-454.
37981	Misawa M;Doull J;Kitos PA;Uyeki EM; (1981) Teratogenic Effects of Cholinergic Insecticides in Chick Embryos 1. Diazinon Treatment on Acetylcholinesterase and Choline Acetyltransferase Activities. 57():
37982	Misawa M;Doull J;Uyeki EM; (1982) Teratogenic Effects of Cholinergic Insecticides in Chick Embryos. 3. Development of Cartilage and Bone. 10(): 551-563.
38010	Montz WE Jr.; Kirkpatrick RL; (1985) Temporal Patterns of Brain Cholinesterase Activities of White-Footed Mice (Peromyscus leucopus) Following Dosing with Diazinon or Parathion. 14(): 19-24.
38048	Mount ME; (1984) Diagnostic Value of Urinary Dialkyl Phosphate Measurement in Goats Exposed to

	Diazinon. 45(4): 817-824.
38642	Sauter EA;Steele EE; (1972) The Effect of Low Level Pesticide Feeding on the Fertility and Hatchability of Chicken Eggs. 51(): 71-76.
38763	Shlosberg A;Egyed MN;Eilat A;Malkinson M;Preissler E; (1976) Efficacy of Pralidoxime Iodide and Obidoxime Dichloride as Antidotes in Diazinon-Poisoned Goslings. 20(1): 162-166.
39570	Spyker JM; Avery DL; (1977) Neurobehavioral Effects of Prenatal Exposure to the Organophosphate Diazinon in Mice. 3(): 989-1002.
40041	Decarie R;DesGranges JL;Lepine C;Morneau F; (1993) Impact of Insecticides on the American Robin (Turdus migratorius) in a Suburban Environment. 80(): 231-238.
40193	Rondeau G;DesGranges JL; (1995) Effects of Insecticide Use on Breeding Birds in Christmas Tree Plantations in Quebec. 4(5): 281-298.
40200	Dabbert CB;Sheffield SR;Lochmiller RL; (1996) Northern Bobwhite Egg Hatchability and Chick Immunocompetence Following a Field Application of Diazinon. 56(4): 612-616.
40294	Vink K;Dewi L;Bedaux J;Tompot A;Hermans M;Van Straalen NM; (1995) The Importance of the Exposure Route when Testing the Toxicity of Pesticides to Saprotrophic Isopods. 14 (7)(): 1225-1232.
40407	Lanno RP;Stephenson GL;Wren CD; (1997) Applications of Toxicity Curves in Assessing the Toxicity of Diazinon and Pentachlorophenol to Lumbricus terrestris in Natural Soils. 29(3/4): 689-692.
40843	Allen WR; Askew WL; Schreiber K; (1961) Effect of Insecticide Fertilizer Mixtures and Seed Treatments on Emergence of Sugar Beet Seedlings. 54(): 181-187.
41197	Kabir SMH; Khan MH; (1972) "Effects of Diazinon, Dieldrin, and Supracide on Seedlings of Tomato, Eggplant, and Cabbage". 65(): 1179-1180.
42817	Ferree DC;Hall FR; (1978) Effects of Growth Regulators and Multiple Applications of Pesticides on Net Photosynthesis and Transpiration of Greenhouse-Grown Apple Trees. 103(1): 61-64.
43712	Cruz C;Streu HT;Snee RD; (1970) "Growth Response of Greenhouse Chrysanthemum, Chrysanthemum morifolium, to Root Drenches of Diazinon and Demeton". 63(): 1446-1451.
45073	Dyer SD;Dickson KL;Zimmerman EG; (1993) A Laboratory Evaluation of the Use of Stress Proteins in Fish to Detect Changes in Water Quality. (): 247-261.
45074	Williams RL; (1989) "Uptake Kinetics and Toxicity of Diazinon in the American Oyster, Crassostrea virginica Gmelin". (): 108 p
45076	Stevens MM; Warren GN; (1992) "Insecticide Treatments Used Against a Rice Bloodworm, Chironomus tepperi (Diptera: Chironomidae): Suppression of Larval Populations". 85(5): 1606-1613.
45079	Moore A; Waring CP; (1996) Sublethal Effects of the Pesticide Diazinon on Olfactory Function in Mature Male Atlantic Salmon Parr. 48(): 758-775.
45080	Iqbal J;Mufti SA;Asmatullah; (1992) "Effect of Chronic Exposure of Diazinon on the Reproduction of Fresh Water Fish, Colisa fasciata". 4(4): 403-408.
45081	Miah MI;Bhutya BA;Saha KC; (1995) Toxic Effects of Five Organophosphorus Insecticides on Damselfly (Odonata: Zygoptera) Larvae. 23(1): 55-60.
45083	Dutta H;Marcelino J;Richmonds C; (1992) "Brain Acetylcholinesterase Activity and Optomotor Behavior in Bluegills, Lepomis macrochirus Exposed to Different Concentrations of Diazinon". 100(): 331-334.
45085	Ceron JJ;Sancho E;Ferrando MD;Gutierrez C;Andreu E; (1996) Metabolic Effects of Diazinon on the

	European Eel Anguilla anguilla. 31(5): 1029-1040.
45086	Call DJ; (1993) Validation Study of a Protocol for Testing the Acute Toxicity of Pesticides to Invertebrates Using the Apple Snail (Pomacea paludosa). (): 57 p
45089	Martinez-Toledo MV;Salmeron V;Gonzalez-Lopez J; (1993) Effects of Diazinon and Quinalphos on Some Functional Groups of Soil Microflora. 37(): 165-172.
45170	Francisco DE;Terrell JA;Melia GM; (1998) An Evaluation of the Source(s) of Test Animals as a Component of Interlaboratory Variability in the 'NC Mini-chronic Pass/Fail Ceriodaphnia Effluent Toxicity
46078	Onsager JA;Rusk HW; (1967) Absorption and Translocation of Diazinon and Stauffer N-2790 in Sugar Beet Seedlings. 60(2): 586-588.
46323	Millam JR;Delwiche MJ;Craig-Veit CB;Henderson JD;Wilson BW; (2000) Noninvasive Characterization of the Effects of Diazinon on Pigeons. 64(4): 534-541.
47389	Beauvais SL;Jones SB;Brewer SK;Little EE; (2000) Physiological Measures of Neurotoxicity of Diazinon and Malathion to Larval Rainbow Trout (Oncorhynchus mykiss) and Their Correlation with Behavioral
47897	Burgess NM;Hunt KA;Bishop C;Weseloh DV; (1999) "Cholinesterase Inhibition in Tree Swallows (Tachycineta bicolor) and Eastern Bluebirds (Sialia sialis) Exposed to Organophosphorus Insecticides in Apple Orchards in Ontario, Canada". 18(4): 708-716.
47902	Burkepile DE; Moore MT; Holland MM; (2000) Susceptibility of Five Nontarget Organisms to Aqueous Diazinon Exposure. 64(1): 114-121.
48634	Dembele K;Haubruge E;Gaspar C; (2000) Concentration Effects of Selected Insecticides on Brain Acetylcholinesterase in the Common Carp (Cyprinus carpio L.). 45(1): 49-54.
49408	Galindo-Reyes JG;Dalla Venezia L;Lazcano-Alvarez G;Rivas-Mendoza H; (2000) Enzymatic and Osmoregulative Alterations in White Shrimp Litopenaeus vannamei Exposed to Pesticides. 40(3): 233-237.
49919	Hamm JT; Hinton DE; (2000) The Role of Development and Duration of Exposure to the Embryotoxicity of Diazinon. 48(4): 403-418.
52955	Pan G;Dutta HM; (1998) The Inhibition of Brain Acetylcholinesterase Activity of Juvenile Largemouth Bass Micropterus salmoides by Sublethal Concentrations of Diazinon. 79(2): 133-137.
53000	Parker ML; Goldstein MI; (2000) Differential Toxicities of Organophosphate and Carbamate Insecticides in the Nestling European Starling (Sturnus vulgaris). 39(2): 233-242.
53846	Sanchez M;Ferrando MD;Sancho E;Andreu E; (2000) Physiological Perturbations in Several Generations of Daphnia magna Straus Exposed to Diazinon. 46(1): 87-94.
53973	Schnelle MA; Hensley DL; (1990) Effects of Pesticides upon Nitrogen Fixation and Nodulation by Dry
55700	Wolfe MF; Kendall RJ; (1998) Age-Dependent Toxicity of Diazinon and Terbufos in European Starlings (Sturnus vulgaris) and Red-Winged Blackbirds (Agelaius phoeniceus). 17(7): 1300-1312.
56021	Pinese B; (1987) Chlorpyrifos-Impregnated Bunch Covers and Insecticides Control Banana Rust Thrips.
56262	Burpee LL; Cole H; (1978) "The Influence of Alachlor, Trifluralin, and Diazinon on the Development of Endogenous Mycorrhizae in Soybeans". 19(2): 191-197.
56553	Belden JB;Lydy MJ; (2000) Impact of Atrazine on Organophosphate Insecticide Toxicity. 19(9): 2266-
56801	Sheffield SR;Lochmiller RL; (2001) Effects of Field Exposure to Diazinon on Small Mammals Inhabiting a Semienclosed Prairie Grassland Ecosystem. I. Ecological and Reproductive Effects. 20(2): 284-296.

56802 Wang G; Edge WD; Wolff JO; (2001) Response of Bobwhite Quail and Gray-Tailed Voles to Granular and Flowable Diazinon Applications. 20(2): 406-411. 59774 Ceron JJ;Sancho E;Ferrando MD;Gutierrez C;Andreu E; (1997) "Changes in Carbohydrate Metabolism in the Eel Anguilla anguilla, During Short-Term Exposure to Diazinon". 60(1-4): 201-210. 59879 Hamm JT; Wilson BW; Hinton DE; (1998) Organophosphate-Induced Acetylcholinesterase Inhibition and Embryonic Retinal Cell Necrosis In Vivo in the Teleost (Oryzias latipes). 19(6): 853-869. 60179 Van der Geest HG; Greve GD; Boivin ME; Kraak MHS; Van Gestel CAM; (2000) Mixture Toxicity of Copper and Diazinon to Larvae of the Mayfly (Ephoron virgo) Judging Additivity at Different Effect Levels. 60970 Sanchez M; Ferrando MD; Sancho E; Andreu-Moliner E; (1998) Evaluation of a Daphnia magna Renewal Life-Cycle Test Method with Diazinon. 33(6): 785-797. 61217 Campbell JR; Penner D; (1982) Enhanced Phytotoxicity of Bentazon with Organophosphate and Carbamate Insecticides. 30(): 324-326. 61814 Fort DJ;Stover EL;Burks SL;Atherton RA;Blankemeyer JT; (1996) Utilizing Biomarker Techniques: Cellular Membrane Potential as a Biomarker of Subchronic Toxicity. (): 177-187. Piri M;Ordog V; (1999) Herbicides and Insecticides Effects on Green Algae and Cyanobacteria Strain. 1(1): 61937 63628 Bynum ED Jr.; Archer TL; Plapp FW; () Comparison of Banks Grass Mite and Twospotted Spider Mite (Acari: Tetranychidae): Responses to Insecticides Alone and in Synergistic Combinations. 90(5): 1125-1130. 63713 Brunner JF; Dunley JE; Doerr MD; Beers EH; (2001) "Effect of Pesticides on Colpoclypeus florus (Hymenoptera: Eulophidae) and Trichogramma platneri (Hymenoptera: Trichogrammatidae), Parasitoids of Leafrollers in Washington". 94(5): 1075-1084. 63774 Choo HY:Kim HH;Kaya HK; (1998) "Effects of Selected Chemical Pesticides on Agamermis unka (Nematoda: Mermithidae), a Parasite of the Brown Plant Hopper, Nilaparvata lugens". 8(3): 413-427. 63909 Polavarapu S; (2000) Evaluation of Phytotoxicity of Diazinon and Captan Formulations on Highbush Blueberries. 10(2): 308-314. 64485 Stephenson GL; Wren CD; Middelraad ICJ; Warner JE; (1997) "Exposure of the Earthworm, Lumbricus terrestris, to Diazinon, and the Relative Risk to Passerine Birds". 29(3/4): 717-720. 65887 Brewer SK:Little EE:DeLonay AJ:Beauvais SL:Jones SB:Ellersieck MR; (2001) Behavioral Dysfunctions Correlate to Altered Physiology in Rainbow Trout (Oncorynchus mykiss) Exposed to Cholinesterase-Kwak IS;Chon TS;Kang HM;Chung NI;Kim JS;Koh SC;Lee SK;Kim YS; (2002) Pattern Recognition of the 66302 Movement Tracks of Medaka (Oryzias latipes) in Response to Sub-lethal Treatments of an Insecticide by Using Artificial Neural Networks. 120(3): 671-681. 66991 Vink K; Van Straalen NM; (1999) Effects of Benomyl and Diazinon on Isopod-Mediated Leaf Litter Decomposition in Microcosms. 43(4): 345-359. 67250 Moeed A; (1975) "Effects of Isobenzan, Fensulfothion, and Diazinon on Invertebrates and Micro-67617 Kaur K; Toor HS; (1980) Role of Abiotic Factors in the Embryonic Development of Scale Carp. 46(1): 136-67687 Landrum PF;Fisher SW;Hwang H;Hickey J; (1999) "Hazard Evaluation of Ten Organophosphorus Insecticides Against the Midge, Chironomus riparius via QSAR". 10(5): 423-450. 68197 Denton DL; Wheelock CE; Murray SA; Deanovic LA; Hammock BD; Hinton DE; (2003) Joint Acute Toxicity of Esfenvalerate and Diazinon to Larval Fathead Minnows (Pimephales promelas). 22(2): 336-341. 68895 Brehmer PM; Anderson RK; (1992) Effects of Urban Pesticide Applications on Nesting Success of Songbirds.

	48(3): 352-359.
69472	Shacklock PF;Croft GB; (1981) Effect of Grazers on Chondrus crispus in Culture. 22(): 331-342.
69689	Tu CM; (1991) Effect of Some Technical and Formulated Insecticides on Microbial Activities in Soil.
70274	Lichtenstein EP;Fuhremann TW;Scopes NEA;Skrentny RF; (1967) Translocation of Insecticides from Soils into Pea Plants. Effects of the Detergent LAS on Translocation and Plant Growth. 15(5): 864-869.
70450	Damicone JP; Manning WJ; Ferro DN; (1987) "Influence of Management Practices on Severity of Stem and Crown Rot, Incidence of Asparagus Miner, and Yield of Asparagus Grown from Transplants". 71(1): 81-84.
70497	Yueh LY; Hensley DL; (1993) Pesticide Effect on Acetylene Reduction and Nodulation by Soybean and Lima Bean. 118(1): 73-76.
70499	Ingham ER; Coleman DC; (1984) "Effects of Streptomycin, Cycloheximide, Fungizone, Captan, Carbofuran, Cygon, and PCNB on Soil Microorganisms". 10(4): 345-358.
70527	Kim DG;Riggs RD; (1998) Effects of Some Pesticides on the Growth of ARF18 and Its Pathogenicity to Heterodera glycines. 30(2): 201-205.
70778	Soh CT;Lee KT;Cho KM;Ahn YK;Kim SJ;Chung PR;Im KI;Min HK; (1975) Resistance of Free-Living Stages of Soil-Transmitted Parasites to Pesticides. 6(1): 3-13.
70794	Mallik MAB; Tesfai K; (1985) Pesticidal Effect on Soybean-Rhizobia Symbiosis. 85(1): 33-41.
71015	Leland JE; Mullins DE; Berry DF; (2001) Evaluating Environmental Hazards of Land Applying Composted Diazinon Using Earthworm Bioassays. 36(6): 821-834.
71212	Vanninen I;Hokkanen H; (1988) Effect of Pesticides on Four Species of Entomopathogenic Fungi In Vitro.
71366	Zimmerman RJ;Cranshaw WS; (1990) Compatibility of Three Entomogenous Nematodes (Rhabditida) in Aqueous Solutions of Pesticides Used in Turfgrass Maintenance. 83(1): 97-100.
71484	Potter DA;Buxton MC;Redmond CT;Patterson CG;Powell AJ; (1990) Toxicity of Pesticides to Earthworms (Oligochaeta: Lumbricidae) and Effect on Thatch Degradation in Kentucky Bluegrass Turf. 83(6): 2362-
71891	Dutta HM;Meijer HJM; (2003) "Sublethal Effects of Diazinon on the Structure of the Testis of Bluegill, Lepomis macrochirus: A Microscopic Analysis". 125(3): 355-360.
72516	Matin MA; Husain K; (1987) Cerebral Glucose and Glycogen Metabolism in Diazinon-Treated Animals. 2():
72622	Stark JD; Vargas RI; (2003) Demographic Changes in Daphnia pulex (Leydig) After Exposure to the Insecticides Spinosad and Diazinon. 56(3): 334-338.
73146	Thursby GB;Berry WJ; (1988) Acute Toxicity of Diazinon to Saltwater Animals. (): 10 p
74129	Shlosberg A;Bellaiche M;Hanji V;Ershov E; () New Treatment Regimens in Organophosphate (Diazinon) and Carbamate (Methomyl) Insecticide-Induced Toxicosis in Fowl. 39(6): 347-350.
74236	Conners DE;Black MC; (2004) Evaluation of Lethality and Genotoxicity in the Freshwater Mussel Utterbackia imbecillis (Bivalvia: Unionidae) Exposed Singly and in Combination to Chemicals Used in Lawn
74591	Sinha PK;Pal S;Triar SB; (1986) An Effective Molluscicide for Grazer Snails of Blue Green Alge. 20(2): 44-
74895	Hamm JT; Wilson BW; Hinton DE; (2001) Increasing Uptake and Bioactivation with Development Positively Modulate Diazinon Toxicity in Early Life Stage Medaka (Oryzias latipes). 61(2): 304-313.

 $\label{lem:lem:management} \mbox{Jagdale GB;Grewal PS; (2002) Identification of Alternatives for the Management of Foliar Nematodes in Floriculture. 58(5): 451-458.}$ 

76753 Maxwell LB; Dutta HM; () "Diazinon-Induced Endocrine Disruption in Bluegill Sunfish, Lepomis macrochirus". 60(1): 21-27. 76924 Svoboda M;Luskova V;Drastichova J;Zlabek V; (2001) The Effect of Diazinon on Haematological Indices of Common Carp (Cyprinus carpio L.). 70(): 457-465. 79046 Atkinson PR; (1989) "Controlled-Release Insecticide Granules, Compared with Other Soil Insecticides, for Use Against the Termite, Macrotermes natalensis Haviland, in the Establishment of Eucalyptus 79402 Lydy MJ; Austin KR; (2005) Toxicity Assessment of Pesticide Mixtures Typical of the Sacramento-San Joaquin Delta Using Chironomus tentans. 48(1): 49-55. 80423 Rollins-Smith LA; Hopkins BD; Reinert LK; (2005) An Amphibian Model to Test the Effects of Xenobiotic Chemicals on Development of the Hematopoietic System. 23(12): 2863-2867. 80425 Pina-Guzman B;Solis-Heredia MJ;Quintanilla-Vega B; (2005) Diazinon Alters Sperm Chromatin Structure in Mice by Phosphorylating Nuclear Protamines. 202(2): 189-198. 80442 Gokalp O;Buyukvanli B;Cicek E;Ozer MK;Koyu A;Altuntas I;Koylu H; () The Effects of Diazinon on Pancreatic Damage and Ameliorating Role of Vitamin E and Vitamin C. 81(2): 123-128. Lein PJ; Fryer AD; (2005) Organophosphorus Insecticides Induce Airway Hyperreactivity by Decreasing 80607 Neuronal M2 Muscarinic Receptor Function Independent of Acetylcholinesterase Inhibition. 83(1): 166-80609 Moser VC; Casey M; Hamm A; Carter WH; Simmons JE; Gennings C; (2005) Neurotoxicological and Statistical Analyses of a Mixture of Five Organophosphorus Pesticides Using a Ray Design. 86(1): 101-115. 80835 Aydin R; Koprucu K; (2005) Acute Toxicity of Diazinon on the Common Carp (Cyprinus carpio L.) Embryos and Larvae. 82(): 220-225. 81328 Teh SJ;Zhang GH;Kimball T;Teh FC; (2004) Lethal and Sublethal Effects of Esfenvalerate and Diazinon on Splittail Larvae. 39(): 243-253. Schuler LJ:Trimble AJ:Belden JB:Lydy MJ: (2005) Joint Toxicity of Triazine Herbicides and 81665 Organophosphate Insecticides to the Midge Chironomus tentans. 49(2): 173-177. 81945 Park Y; Chung N; Choi K; Cha EY; Lee S; Chon T; (2005) Computational Characterization of Behavioral Response of Medaka (Oryzias latipes) Treated with Diazinon. 71(3): 215-228. 82732 Rowland S; Cartwright B; Roberts BW; (1994) "Control of Pests on Tomatoes, Summer 1993". 19(): 150 83888 Mahar AM; Watzin MC; (2005) Effects of Metal and Organophosphate Mixtures on Ceriodaphnia dubia Survival and Reproduction, 24(7): 1579-1586. 83912 Bhagawati B;Phukan PN; (1990) Chemical Control of Meloidogyne incognita on Pea. 20(1): 79-83. 83913 Gogoi BB; Phukan PN; (1990) Efficacy of Certain Chemicals as Seed Treatment Against Meloidogyne incognita on Lentil. 20(1): 53-56. 83924 Barnett JB;Spyker-Cranmer JM;Avery DL;Hoberman AM; (1980) Immunocompetence Over the Lifespan of Mice Exposed In Utero to Carbofuran or Diazinon: I. Changes in Serum Immunoglobulin Concentrations. 83926 Yanni YG; (1992) Fertilizer Responses of Rice to Nitrogen and Cyanobacteria in the Presence of Insecticides. 24(11): 1085-1088. 83929 Biediger DL;Baumann PA;Weaver DN;Chandler JM;Merkle MG; (1992) Interactions Between Primisulfuron and Selected Soil-Applied Insecticides in Corn (Zea mays). 6(4): 807-812.

84164 Zhang L;Shono T;Yamanaka S;Tanabe H; (1994) Effects of Insecticides on the Entomopathogenic nematode Steinernema carpocapsae Weiser. 29(4): 539-547. 84362 Menendez MS; Ishimatsu A; (1993) "Pesticide Toxicity in the Larvae of Japanese Flounder, Paralichthys olivaceus". 74/75(): 31-36. 84364 Lox CD; (1987) The Effects of Short Term Diazinon Exposure on Blood Clotting Activity in the Rat. 7(3): 84365 Husain K; Mirza MA; Matin MA; (1987) Convulsions as the Etiology of Lactic Acidosis in Acute Diazinon Toxicity in Rats. 37(3): 257-261. 84366 Matin MA; Husain K; Khan SN; (1990) Modification of Diazinon-Induced Changes in Carbohydrate Metabolism by Adrenalectomy in Rats. 39(11): 1781-1786. Hemming JM; Waller WT; (2004) "Diazinon and Chlorpyrifos Toxicity to the Freshwater Asiatic Clam, 84369 Corbicula fluminea Muller, and the Estuarine Hooked Mussel, Ischadium recurvum Rafinesque". 67(1): 1-8. 84378 Matin MA;Sattar S;Husain K; (1990) The Role of Adrenals in Diazinon-Induced Changes in Carbohydrate Metabolism in Rats. 41(4): 347-356. 84379 Husain K; Matin MA; (1986) Cerebral Glycolysis and Glycogenolysis in Diazinon Treated Animals. 37(1): 84380 Khalaf-Allah SS; (1999) "Effect of Pesticide Water Pollution on Some Haematological, Biochemical and Immunological Parameters in Tilapia nilotica Fish". 106(2): 67-71. 84381 Amin WA; Fatma AM; Budai CS; (1992) Effect of Trifluralin and Certain Pesticides for Management of Meloidogyne incognita on Tomato. 22(2): 89-92. 84382 Chon T;Chung N;Kwak I;Kim J;Koh S;Lee S;Leem J;Cha EY; (2005) Movement Behaviour of Medaka (Oryzias latipes) in Response to Sublethal Treatments of Diazinon and Cholinesterase Activity in Semi-84407 Lower N; Moore A; (2003) Exposure to Insecticides Inhibits Embryo Development and Emergence in Atlantic salmon (Salmo salar L.). 28(1-4): 431-432. 84455 Khoshbavar-Rostami H;Soltani M;Hassan HMD; (2004) Acute Toxicity and Some Haematological and Biochemical Changes in Giant Sturgeon (Huso huso) Exposed to Diazinon. 24(2): 92-99. 84471 Danielson TJ; Golsteyn LR; (1997) Weight Gain and Feed Utilization of Hereford Steers Exposed to Diazinon. 77(1): 181-183. 84472 Husain K; Ansari RA; (1988) Influence of Cholinergic and Adrenergic Blocking Drugs on Hyperglycemia and Brain Glycogenolysis in Diazinon-Treated Animals. 66(9): 1144-1147. 84473 Saigal S;Bhatnagar VK;Singh VS; (1987) Toxicity of Pesticides Lindane and Diazinon After Repeated Oral Administration to Rats. 5(4): 733-735. 84510 Hata TY; Hara AH; (1992) "Control of Armored Scales on Bird of Paradise, Hawaii, 1990". 17(): 317-. 84742 Robens JF; (1969) "Teratologic Studies of Carbaryl, Diazinon, Norea, Disulfiram, and Thiram in Small Laboratory Animals". 15(1): 152-163. 84743 Frick TW;Dalo S;O'Leary JF;Runge W;Borner JW;Baraniewski H;Dressel T;Shearen JG;Goodale RL; (1987) "Effects of Insecticide, Diazinon, on Pancreas of Dog, Cat and Guinea Pig". 7(4): 1-12. 84745 Durmaz H;Sevgiler Y;Uner N; (2006) Tissue-Specific Antioxidative and Neurotoxic Responses to Diazinon in Oreochromis niloticus. 84(3): 215-226. 84746 Seifert J; Pewnim T; (1992) Alteration of Mice L-Tryptophan Metabolism by the Organophosphorous Acid Triester Diazinon. 44(11): 2243-2250.

84752 Stark JD; (2005) How Closely do Acute Lethal Concentration Estimates Predict Effects of Toxicants on Populations?. 1(2): 109-113. 84753 Dutta HM;Maxwell LB; (2003) "Histological Examination of Sublethal Effects of Diazinon on Ovary of Bluegill, Lepomis macrochirus". 121(1): 95-102. 84754 Falugi C; Amaroli A; Evangelisti V; Viarengo A; Corrado MUD; (2002) Cholinesterase Activity and Effects of Its Inhibition by Neurotoxic Drugs in Dictyostelium discoideum. 48(4): 407-414. 84755 Handy RD; Abd-El Samei HA; Bayomy MFF; Mahran AM; Abdeen AM; El-Elaimy EA; (2002) "Chronic Diazinon Exposure: Pathologies of Spleen, Thymus, Blood Cells, and Lymph Nodes are Modulated by Dietary Protein or Lipid in the Mouse". 172(1): 13-34. 84756 Kalender S;Ogutcu A;Uzunhisarcikli M;Acikgoz F;Durak D;Ulusoy Y;Kalender Y; (2005) Diazinon-Induced Hepatotoxicity and Protective Effect of Vitamin E on Some Biochemical Indices and Ultrastructural 84757 De Blaquiere GE; Waters L; Blain PG; Williams FM; (2000) Electrophysiological and Biochemical Effects of Single and Multiple Doses of the Organophosphate Diazinon in the Mouse. 166(2): 81-91. 84758 Lecoeur S; Videmann B; Mazallon M; (2006) Effect of Organophosphate Pesticide Diazinon on Expression and Activity of Intestinal P-Glycoprotein. 161(3): 200-209. 84759 Pesando D;Huitorel P;Dolcini V;Angelini C;Guidetti P;Falugi C; (2003) "Biological Targets of Neurotoxic Pesticides Analysed by Alteration of Developmental Events in the Mediterranean Sea Urchin, Paracentrotus 84760 Uner N;Oruc EO;Sevgiler Y;Sahin N;Durmaz H;Usta D; (2006) Effects of Diazinon on Acetylcholinesterase Activity and Lipid Peroxidation in the Brain of Oreochromis niloticus. 21(3): 241-245. 84763 Matin MA; Husain K; (1987) Changes in Cerebral Glycogenolysis and Related Enzymes in Diazinon Treated Hyperglycemic Animals. 7(2): 131-134. 84764 Lox CD; Davis JR; (1983) The Effects of Long-Term Malathion or Diazinon Ingestion on the Activity of Hepatic Synthesized Clotting Factors. 7(6): 546-551. 84765 Yakoub LK; Mohammad FK; (1997) Medetomidine Protection Against Diazinon-Induced Toxicosis in Mice. 84766 Davies DB; Holub BJ; (1980) Comparative Subacute Toxicity of Dietary Diazinon in the Male and Female Rat. 54(3): 359-367. 84768 Gordon CJ; Mack CM; (2003) Influence of Gender on Thermoregulation and Cholinesterase Inhibition in the Long-Evans Rat Exposed to Diazinon. 66(3): 291-304. 84769 Rangoonwala SP:Kazim M:Pandey AK; (2005) Effects of Diazinon on Serum Calcium and Inorganic Phosphate Levels as well as Ultrastructures of Parathyroid and Calcitonin Cells of Rattus norvegicus. 26(2): Anthony J;Banister E;Oloffs PC; (1986) Effect of Sublethal Levels of Diazinon: Histopathology of Liver. 84770 84771 White PF; (1992) The Comparative Effects of Three Formulations of Diazinon on Cropping of a Hybrid and a Non-hybrid Strain of the Cultivated Mushroom Agaricus bisporus. 121(3): 655-668. 84772 Matin MA; Khan SN; Hussain K; Sattar S; (1989) Effect of Adrenal ectomy on Diazinon-Induced Changes in Carbohydrate Metabolism. 63(5): 376-380. 84773 Neishabouri EZ; Hassan ZM; Azizi E; Ostad SN; (2004) Evaluation of Immunotoxicity Induced by Diazinon in C57bl/6 Mice. 196(3): 173-179. 85110 Mufti SA; Ullah A; (1991) Embryotoxicity of Diazinon in Mice. 11(): 33-40. 85173 Faris GA:Mohammad FK; (1996) Reduction of Some Organophosphate Insecticides Toxicity in Mice by Diphenhydramine (Research Note). 23(2): 95-97.

85252 Singh A;Dalal MR;Bhatti DS; (1989) Control of Hirschmanniella oryzae Nematodes in Rice. 14(6): 34-. 85496 Khera KS;Lyon DA; (1968) Chick and Duck Embryos in the Evaluation of Pesticide Toxicity. 13(1): 1-15. 85497 Williams MW; Fuyat HN; Fitzhugh OG; (1959) The Subacute Toxicity of Four Organic Phosphates to Dogs. 85506 Kendall RJ;Brewer LW;Hitchcock RR; (1993) Response of Canada Geese to a Turf Application of Diazinon AG500. 29(3): 458-464. 85507 Prijono WB; Leighton FA; (1991) "Parallel Measurement of Brain Acetylcholinesterase and the Muscarinic Cholinergic Receptor in the Diagnosis of Acute, Lethal Poisoning by Anti-Cholinesterase Pesticides". 27(1): 85627 Uyeki EM; Doull J; Cheng CC; Misawa M; (1982) Teratogenic and Antiteratogenic Effects of Nicotinamide Derivatives in Chick Embryos. 9(5/6): 963-973. 85629 Lasut MT; Angmalisang AP; (1998) The Effect of Diazinon and Glyphosate (Pesticides) on Oxygen Consumption of the Box Mussel Septifer bilocularis L.. 18(1): 139-144. 85630 Peacock CH:Dunn RA: (1986) Effects of Nematicide Formulations on Turfgrass Nematodes, 45(): 185-188. 85631 Cavaliere MJ;Puga FR;Calore EE;Calore NMP;Di R.Pelegrino J;Da Rosa AR;Weg R; (1998) Protective Effect of Pralidoxime on Muscle Fiber Necrosis Induced by Organophosphate Compounds. 36(4): 295-300. 85632 Rahman MZ;Hossain Z;Mollah MFA;Ahmed GU; (2002) "Effect of Diazinon 60 EC on Anabas testudineus, Channa punctatus and Barbodes gonionotus". 25(2): 8-12. 85633 Kumar K;Saxena PN; (2003) Effect of Diazol on Certain Liver Biochemical Parameters of Female Albino Rats. 3(1/2): 143-148. 85634 Dalla Venezia L; Galindo Reyes JG; Burgueno Juarez E; (1999) Influence of Organophosphorus Pesticides on Oxygen Consumption in the Shrimp Penaeus vannamei. 34(1): 23-26. 85635 Wilkinson JG; Rajendra W; Oloffs PC; Banister EW; (1986) Diazinon Treatment Effects on Heart and Skeletal Muscle Enzyme Activities. 21(2): 103-113. 85636 Nagayama M;Akahori F;Chiwata H;Shirai M;Motoya M;Masaoka T;Sakaguchi K; (1996) Effects of Selected Organophosphate Insecticides on Serum Cholinesterase Isoenzyme Patterns in the Rat. 38(3): 196-199. Al-Qarawi AA; Mahmoud OM; Haroun EM; Sobaih MA; Adam SEI; (1999) Comparative Effects of Diazinon 85637 and Malathion in Najdi Sheep. 41(5): 287-289. 85638 Forschler BT; Gardner WA; (1991) Field Efficacy and Persistence of Entomogenous Nematodes in the Management of White Grubs (Coleoptera: Scarabaeidae) in Turf and Pasture. 84(5): 1454-1459. Meneely GA; Wyttenbach CR; (1989) Effects of the Organophosphate Insecticides Diazinon and Parathion 85639 on Bobwhite Quail Embryos: Skeletal Defects and Acetylcholinesterase Activity. 252(1): 60-70. 85640 Kaligis FG;Lasut MT; (1997) Effects of Salinity and Diazinon on the Abalone Haliotis varia (Gastropoda: Haliotidae). 17(1): 115-120. 85649 Khan TA; Khan ST; (1995) Evaluation of Seed Dressings with Nematicides for Control of Heterodera cajani Infection of Cowpea (Vigna unguiculata). 16(): 2-3; Ann.Appl.Biol.126(Suppl). 85670 Berry WJ; (1989) Recalculation of Del Nimmo's Flow-Through Chronic Values for Mysids with Diazinon. 85681 Pourgholam R:Soltani M:Hassan DM:Esmaeili F:Farhoomand H:Usefi P: (2001) "Evaluation of Blood Characteristics of Grass Carp (Ctenopharyngodon idella) After Exposure to Organophosphate, Diazinon". 85970 Vyas NB;Spann JW;Hulse CS;Borges SL;Bennett RS;Torrez M;Williams BI;Leffel R; (2006) Field

- Evaluation of an Avian Risk Assessment Model. 25(7): 1762-1771.
- Hossain Z;Haldar GC;Mollah MFA; (2000) "Acute Toxicity of Chlorpyrifos, Cadusafos and Diazinon to Three Indian Major Carps (Catla catla, Labeo rohita and Cirrhinus mrigala) Fingerlings". 4(2): 191-198.
- 86162 Saikia DK;Phukan PN; (1985) Efficacy of Certain Chemicals for the Control of Root-Knot Nematode Meloidogyne incognita on Jute. 6(1): 43-46.

# H.3. ECOTOX accepted references, relevant to diazinon degredates, cited within the risk assessment or used for deriving species sensitivity distributions

Culley DD Jr.;Ferguson DE; (1969) "Patterns of Insecticide Resistance in the Mosquitofish, Gambusia affinis". 26(9): 2395-2401.

## H.4. ECOTOX accepted references, relevant to diazinon degredates, not utilized or cited within this risk assessment

- Sanders HO; (1969) Toxicity of Pesticides to the Crustacean *Gammarus lacustris*. (): 18 p. (Author Communication Used)(Used with Reference 732) (Publ in Part As 6797)-.
- Sanders HO; (1972) Toxicity of Some Insecticides to Four Species of Malacostracan Crustaceans. (): 19 p. (Publ in Part As 6797)-.
- 2093 Naqvi SM;Ferguson DE; (1968) Pesticide Tolerances of Selected Freshwater Invertebrates. 14(): 121-127.
- 2155 Henderson C; Pickering QH; (1958) Toxicity of Organic Phosphorus Insecticides to Fish. 87(): 39-51.
- Davis HC;Hidu H; (1969) Effects of Pesticides on Embryonic Development of Clams and Oysters and on Survival and Growth of the Larvae. 67(2): 393-404.
- 2904 Hilsenhoff WL; (1959) The Evaluation of Insecticides for the Control of Tendipes plumosus (Linnaeus).
- Dennis WH Jr.;Rosencrance AB;Randall WF; (1980) Acid Hydrolysis of Military Standard Formulations of Diazinon. 15(1): 47-60.
- 6797 Mayer FL Jr.; Ellersieck MR; (1986) Manual of Acute Toxicity: Interpretation and Data Base for 410 Chemicals and 66 Species of Freshwater Animals. (): 505 p. (USGS Data File)-.
- 8039 Ukeles R; (1962) Growth of Pure Cultures of Marine Phytoplankton in the Presence of Toxicants. 10():
- Batte EG;Swanson LE; (1952) "Laboratory Evaluation of Organic Compounds as Molluscacides and Ovocides, II". 38(): 65-68.
- Tsuda T;Kojima M;Harada H;Nakajima A;Aoki S; (1997) "Acute Toxicity, Accumulation and Excretion of Organophosphorous Insecticides and Their Oxidation Products in Killifish". 35(5): 939-949.
- 37780 Lynch WT; Coon JM; (1972) Effect of Tri-o-Tolyl Phosphate Pretreatment on the Toxicity and Metabolism of Parathion and Paraoxon in Mice. 21(): 153-165.

#### H.5. List of exclusion terms utilized for reviewing studies considered for ECOTOX database

**Review**--all toxicity tests reported elsewhere. If the publication is applicable to one of the ECOTOX databases, the bibliography is skimmed and any applicable articles are ordered.

**Methods**-no usable toxicity tests. Reports of methods of conducting tests, determination or purification of chemicals, etc. Methods publications are selected to be ordered for the ECOTOX toxicology methods information file (Methfile).

**Modeling** only, no new organism exposure data. Modeling studies may report original toxicity tests performed as comparisons or as a basis for extrapolation; order the paper if it is not clear from the abstract.

Other ambient conditions--effects on organisms from changes in conditions other than addition of chemicals, including radioactivity, ultraviolet light (UV), temperature, pH, salinity, dissolved oxygen (DO), or other water, air, or soil parameters.

**Biological Toxicant**--includes venoms, fungal toxins, *Bacillus thuringiensis*, other plant, animal, or microbial extracts or toxins.

**Drug**--testing for drug effects and side-effects.

**Effluent**, sewage, or polluted runoff.

Mixture--no single chemical tests reported.

**Nutrient** studies--in situ chemicals tested as nutrients.

No Species--no organism present or tested or unable to verify a species or exposure of dead organism.

**In Vitro** studies, including exposure of cell cultures and excised tissues.

**Bacteria** as test organism, including **Microtox** tests, or other microbial organisms.

**Yeast** as a test organism is historically not coded in ECOTOX.

No Toxicity Data--publications which are not toxicology studies.

**Human Health** effects; studies with human subjects or with animal subjects as surrogates for human health risk assessment.

**No Conc**entration--no usable dose or concentration reported; identified after examination of full paper. Includes lead-shot studies which lack dose information or give only number of pellets. Concentrations reported only in log units are not coded.

**Sediment Conc**entration--chemical concentration reported in sediment only. Sediment studies are coded for AQUIRE only if a water concentration of the added chemical is also reported; order the publication if unclear from the abstract.

No Duration reported, identified after examination of full paper.

**Incident** papers--reports of animal deaths by poison, etc. Lacks usable concentration or duration or both.

**Survey** studies--measuring amounts of chemical present, but no usable quantification of exposure. Lacks either usable concentration or duration or both.

Fate: Studies reporting only what happens to the chemical in abiotic matrices

Food Studies, no chemical and effects information are reported

**PUBL AS**, author has results were published in a different format. For example, may be used for a Ph.D. dissertation when the same results were also published in a peer-reviewed journal.

**NON-ENGLISH** or **FORE**, paper was published in a foreign language.

#### H.6. List of diazinon related studies excluded from ECOTOX database

- 1. 2000). Farm Chemicals Handbook. *Meister Publishing Company, Willoughby, Ohio* 4 p. Rejection Code: REVIEW.
- 2. 1989). Identification and characterization of a plasma protein group, the thiol ester plasma proteins (TEPP) which bind IL-1[beta]: +NY Hosp.Cornell Univ., NY 10021; \*Dept.Derm.II and LBI-DVS, Lab.Cellbiol., Univ.Vienna; #Dept.Mol.Biol., Univ.Aarhus, Denmark. *Cytokine* 1: 89. Rejection Code: METHODS.
- 3. 1991). INITIAL SUBMISSION: ACUTE SKIN ABSORPTION TEST ON RABBITS ALD (FINAL REPORT) WITH COVER LETTER DATED 112691. *EPA/OTS; Doc #88-920000406*. Rejection Code: HUMAN HEALTH.
- 4. 1992). INITIAL SUBMISSION: GUINEA PIG SENSITIZATION (FINAL REPORT) WITH COVER LETTER DATED 010792. *EPA/OTS; Doc #88-920000599*.

  Rejection Code: HUMAN HEALTH.
- 5. 1991). INITIAL SUBMISSION: SKIN ABSORPTION ALD RABBITS (FINAL REPORT) WITH COVER LETTER DATED 112691. *EPA/OTS; Doc #88-920000404*. Rejection Code: HUMAN HEALTH.
- 6. 2000). LIST OF THE ORGANIC MICROPOLLUTANTS FOUND IN SOME FRESH WATERS, EFFLUENTS, AQUATIC PLANTS AND ANIMALS, AND BOTTOM SEDIMENTS. *EPA/OTS; Doc #40-7642395*.

  Rejection Code: NO TOX DATA.
- 1991). Puget Sound pesticide reconnaissance survey, 1990.
   Rejection Code: SURVEY.
- 8. 2000). SUPPORT DOCUMENT FOR THE SARA SECTION 110 "SECOND 100" LIST (DRAFT). EPA/OTS; Doc #110-881013 .

  Rejection Code: NO TOX DATA.
- 9. 1979). UPDATE ON PROGRESS OF INFORMATION RELATING TO CHEMICAL FERTILIZER PLANT WITH ATTACHMENTS. *EPA/OTS; Doc #FYI-OTS-1278-0017*. Rejection Code: NO TOX DATA.
- 10. ABD-EL SAMEI HA, HANDY RD, BAYOMY MFF, MAHRAN HA, ABDEEN AM, and EL-ELAIMY EA (1999). Histopathological effects of chronic diazinon exposure and dietary modulation on selected haematopoietic tissues of the mouse. ANNUAL CONGRESS OF THE BRITISH TOXICOLOGY SOCIETY, STOKE ON TRENT, ENGLAND, UK, APRIL 18-21, 1999.YHUMAN & EXPERIMENTAL TOXICOLOGY; 18 533.
  Rejection Code: ABSTRACT.
- 11. ABDALLA, A. (1992). SUDAN THE SITUATION OF DESERT LOCUST TREE LOCUST AND GRASSHOPPERS IN THE SUDAN 1990-1991. LOMER, C. J. AND C. PRIOR (ED.).

  BIOLOGICAL CONTROL OF LOCUSTS AND GRASSHOPPERS; WORKSHOP, COTONOU, BENIN, APRIL 29-MAY 1, 1991. XII+394P. C.A.B. INTERNATIONAL: WALLINGFORD, ENGLAND, UK; INTERNATIONAL INSTITUTE OF TROPICAL AGRICULTURE: IBADAN, NIGERIA. ISBN 0-85198-779-6.; 0 (0). 1992. 97-98.

  Rejection Code: INCIDENT.
- 12. Abdel-Halim, K. Y., Salama, A. K., El-khateeb, E. N., and Bakry, N. M. (Organophosphorus pollutants

(OPP) in aquatic environment at Damietta Governorate, Egypt: Implications for monitoring and biomarker responses. *Chemosphere* In Press, Corrected Proof. Rejection Code: SURVEY.

13. Abdelsalam, E. B. (1999). Neurotoxic Potential of Six Organophosphorus Compounds in Adult Hens. *Vet.Hum.Toxicol.* 41: 290-292.

; Habitat: T; Effect Codes: BCM,PHY

- 14. Abdelsalam, E. B. and Ford, E. J. H. (1987). The effect of induced liver, kidney and lung lesions on the toxicity of levamisole and diazinon in calves. *Journal of Comparative Pathology* 97: 619-627. Rejection Code: MIXTURE.
- 15. Abdelsalam, E. B. and Ford, E. J. H. (1986). Effect of pretreatment with hepatic microsomal enzyme inducers on the toxicity of diazinon in calves. *Research in Veterinary Science [RES. VET. SCI.]. Vol. 41, no. 3, pp. 336-339. 1986.* Rejection Code: MIXTURE.
- Abou-Arab, A. A. K. and Abou Donia, M. A. (2001). Pesticide residues in some Egyptian spices and medicinal plants as affected by processing. *Food Chemistry* 72: 439-445.
   Rejection Code: FATE.
- 17. ABOU-ARAB A AK (1999). Behavior of pesticides in tomatoes during commercial and home preparation. Rejection Code: FATE.
- 18. ABOU-ARAB AAK, KAWTHER, M. SOLIMAN, EL TANTAWY ME, BADEAA, R. ISMAIL, and KHAYRIA, N. (1999). Quantity estimation of some contaminants in commonly used medicinal plants in the Egyptian market. *FOOD CHEMISTRY*; 67 357-363. Rejection Code: HUMAN HEALTH.
- 19. Abu-Qare, A. W. and Abou-Donia, M. B. (2001). Inhibition and Recovery of Maternal and Fetal Cholinesterase Enzyme Activity Following a Single Cutaneous Dose of Methyl Parathion and Diazinon, Alone and in Combination, in Pregnant Rats. *J.Appl.Toxicol.* 21: 307-316.

; Habitat: T; Effect Codes: BCM

- 20. Adachi, K., Ohokuni, N., and Mitsuhashi, T. (1984). Simple analytical method for organophosphorus pesticide determination in unpolished rice, using removal of fats by zinc acetate. *Journal of the Association of Official Analytical Chemists [J. ASSOC. OFF. ANAL. CHEM.]. Vol. 67, no. 4, pp. 798-800. 1984*.

  Rejection Code: METHODS.
- Adams, P. B. and Wong, J. A. L. (1991). The Effect of Chemical Pesticides on the Infection of Sclerotia of Sclerotinia minor by the Biocontrol Agent Sporidesmium sclerotivorum. *Phytopathology* 81: 1340-1343.

; Habitat: T; Effect Codes: PHY

- 22. Adlung, K. G. (1957). The Toxicity of Insecticidal and Acaricidal Agents to Fish (Zur Toxizitat Insektizider und Akarizider Wirkstoffe für Fische). *Naturwissenschaften* 44: 471-472.
  - ; Habitat: A; Effect Codes: MOR
- 23. Adonaylo, V. N. and Oteiza, P. I. (1999). Pb2+ promotes lipid oxidation and alterations in membrane physical properties. *Toxicology* 132: 19-32.

- Rejection Code: NO TOX DATA.
- Ageda, Saori , Fuke, Chiaki, Ihama, Yoko, and Miyazaki, Tetsuji (The stability of organophosphorus insecticides in fresh blood. *Legal Medicine* In Press, Corrected Proof. <u>Rejection Code</u>: FATE.
- 25. AHMAD, M. (1990). The effect of PB and DEF synergists on the toxicities of endosulfan, diazinon and monocrotophos in Heliothis armigera. *J PLANT PROT TROP*; 7 117-122.

  <u>Rejection Code</u>: MIXTURE.
- Ahmad, M. H. and Vekataraman, G. S. (1973). Tolerance of Aulosira fertilissima to Pesticides. *Curr.Sci.* 42: 108 (ABS).
   Rejection Code: ABSTRACT.
- Akasu, T. and Karczmar, A. G. (1980). Effects of anticholinesterases and of sodium fluoride on neuromyal desensitization. *Neuropharmacology* 19: 393-403.
   Rejection Code: IN VITRO.
- 28. AKEY WC, RUSSELL, T., ALFORD, C., MORRISON, T., and DENNING, M. (1997). Will the toad croak? An endangered species decision case. *JOURNAL OF NATURAL RESOURCES AND LIFE SCIENCES EDUCATION*; 26 148-156.

  Rejection Code: NO TOX DATA.
- 29. AKHTAR, S., MISBAHUDDIN, SIDDIQUI, P. MH, and BALOCH UK (1998). Effect of neem cake on persistence of diazinon and endosulfan in paddy soil. *PESTICIDE SCIENCE*; 52: 218-222. Rejection Code: FATE.
- 30. AKHTAR, S., MISBAHUDDIN, SIDDIQUI, P. MH, and BALOCH UK (1998). Effect of neem cake on persistence of diazinon and endosulfan in paddy soil. *PESTICIDE SCIENCE*; 52 218-222. <u>Rejection Code</u>: FATE.
- 31. Al-Attar, H. J. and Knowles, C. O. (1982). Diazinon Uptake, Metabolism, and Elimination by Nematodes. *Arch.Environ.Comtam.Toxicol.* 11: 669-673.
  - ; Habitat: T; Effect Codes: ACC
- 32. Al-Mohanna, F. A. and Hallett, M. B. (1990). "Clamping" actin in polymerized form in electropermeabilized neutrophils inhibits oxidase activation. *Biochemical and Biophysical Research Communications* 169: 1222-1228 .

  Rejection Code: IN VITRO.
- 33. AL-SAMARIEE AI, SHAKER, K. AM, and AL-BASSOMY MA (1988). RESIDUE LEVELS OF THREE ORGANOPHOSPHORUS INSECTICIDES IN SWEET PEPPER GROWN IN COMMERCIAL GREENHOUSES. *PESTIC SCI*; 22 189-194.

  <u>Rejection Code</u>: FATE.
- 34. Alabaster, J. S. (1969). Survival of Fish in 164 Herbicides, Insecticides, Fungicides, Wetting Agents and Miscellaneous Substances. *Int.Pest Control* 11: 29-35 (Author Communication Used).
  - ; Habitat: A; Effect Codes: MOR
- 35. ALAEE, M., FANG, X., YOUNG, S., TODD, A., STRUGER, J., HARRIS, M., and BESTARI, K. (1998).
  THE ANALYSIS OF ORGANOPHOSPHOROUS PESTICIDES IN SURFACE WATER USING SOLID-PHASE DISK EXTRACTION AND GC-MS. INTERNATIONAL ASSOCIATION GREAT LAKES RESEARCH. 41ST CONFERENCE OF THE INTERNATIONAL ASSOCIATION

FOR GREAT LAKES RESEARCH; MEETING, HAMILTON, ONTARIO, CANADA, MAY 18-22, 1998. 160P. INTERNATIONAL ASSOCIATION FOR GREAT LAKES RESEARCH: ANN ARBOR, MICHIGAN, USA.; 0 137.
Rejection Code: ABSTRACT.

36. Alam, M. K. and Maughan, O. E. (1993). Acute Toxicity of Selected Organophosphorus Pesticides to Cyprinus carpio and Barilius vagra. *J.Environ.Sci.Health Part B* 28: 81-89.

; Habitat: A; Effect Codes: MOR

- 37. Albanis, T. A., Pomonis, P. J., and Sdoukos, A. T. (1986). Organophosphorus and carbamates pesticide residues in the aquatic system of Ioannina basin and Kalamas River (Greece). *Chemosphere. Vol.* 15, no. 8, pp. 1023-1034. 1986.

  Rejection Code: SURVEY.
- 38. Albanis, T. A., Pomonis, P. J., and Sdoukos, A. Th. (1986). Organophosphorous and carbamates pesticide residues in the aquatic system of ioannina basin and Kalamas river(Greece). *Chemosphere* 15: 1023-1034.

  Rejection Code: SURVEY.
- 39. Albert, A. (1981). Selective Toxicity: The Physio-chemical Basis of Therapy. 6th Edition, The Chaucer Press Ltd., Bungay, Suffolk, England.

  Rejection Code: NO TOX DATA.
- 40. Alexander, J. P. (1983). Probable diazinon poisoning in peafowl: A clinical description. *Veterinary Record* [VET. REC.]. Vol. 113, no. 19-20, 470 p. 1983.

  Rejection Code: INCIDENT.
- 41. Ali, Mezher A., Hough, Leslie, and Richardson, Anthony C. (1992). Thio and epidithio derivatives of methyl [beta]-lactoside. *Carbohydrate Research* 216: 271-287. Rejection Code: METHODS.
- 42. ALI, S., HAQ, R., KHALIQ, M., and SHAKOORI AR (1997). Use of ultra-violet spectrophotometry for determination of insecticides and aromatic hydrocarbon pollutants. *PUNJAB UNIVERSITY JOURNAL OF ZOOLOGY; 12* 31-34.

  <u>Rejection Code</u>: METHODS.
- 43. Allen Miller, J. and Oehler, Delbert D. (1988). A reservoir neckband system for delivery of organophosphorus insecticides to cattle. *Journal of Controlled Release* 8: 73-78. Rejection Code: METHODS.
- 44. Allender, W. J. and Britt, A. G. (1994). Analyses of Liquid Diazinon Formulations and Breakdown Products: An Australia-Wide Survey. *Bull.Environ.Contam.Toxicol.* 53: 902-906.

  Rejection Code: NO TOX DATA/SURVEY.
- 45. Allison, D. T. (1977). Use of Exposure Units for Estimating Aquatic Toxicity of Organophosphate Pesticides. *EPA-600/3-77-077*, *U.S.EPA*, *Duluth*, *MN* 25 p. (U.S.NTIS PB-272796).
  - ; Habitat: A; Effect Codes: GRO, MOR, REP
- 46. Altuntas, I., Kilinc, I., Orhan, H., Demirel, R., Koylu, H., and Delibas, N. (2004). The effects of diazinon on lipid peroxidation and antioxidant enzymes in erythrocytes in vitro. *Human & Experimental Toxicology [Hum. Exp. Toxicol.]. Vol. 23, no. 1, pp. 9-13. Jan 2004.*Rejection Code: IN VITRO.

- 47. Amato, J. R., Mount, D. I., Durhan, E. J., Lukasewycz, M. T., Ankley, G. T., and Robert, E. D. (1992). An Example of the Identification of Diazinon as a Primary Toxicant in an Effluent. *Environ.Toxicol.Chem.* 11: 209-216.

  <u>Rejection Code</u>: MIXTURE.
- 48. Anderson, B. G. (1960). The Toxicity of Organic Insecticides to Daphnia. *In: C.M.Tarzwell (Ed.), Biological Problems in WAter Pollution, Trans.2nd Seminar, April 20-24, 1959, Tech.Rep.W60-3, U.S.Public Health Service, R.A.Taft Sanitary Engineering Center, Cincinnati, OH 94-95.* 
  - ; Habitat: A; Effect Codes: BEH
- 49. Anderson, B. S., De Vlaming, V., Larsen, K., Deanovic, L. S., Birosik, S., Smith, D. J., Hunt, J. W., Phillips, B. M., and Tjeerdema, R. S. (2002). Causes of ambient toxicity in the Calleguas Creek Watershed of southern California. *Environmental Monitoring and Assessment [Environ. Monit. Assess.]. Vol. 78, no. 2, pp. 131-151. 1 Sep 2002.*Rejection Code: SURVEY.
- 50. Anderson, B. S., Hunt, J. W., Phillips, B. M., Nicely, P. A., Gilbert, K. D., De Vlaming, V., Connor, V., Richard, N., and Tjeerdema, R. S. (2003). Ecotoxicologic Impacts of Agricultural Drain Water in the Salinas River, California, USA. *Environ.Toxicol.Chem.* 22: 2375-2384.

  Rejection Code: EFFLUENT.
- 51. Anderson, B. S., Hunt, J. W., Phillips, B. M., Nicely, P. A., Gilbert, K. D., DeVlaming, V., Connor, V., Richard, N., and Tjeerdema, R. S. (2003). Ecotoxicologic impacts of agricultural drain water in the Salinas River, California, USA. *Environmental Toxicology and Chemistry [Environ. Toxicol. Chem.]. Vol. 22, no. 10, pp. 2375-2384. Oct 2003.*Rejection Code: EFFLUENT.
- 52. Anderson, B. S., Hunt, J. W., Phillips, B. M., Nicely, P. A., Vlaming, V. de, Connor, V., Richard, N., and Tjeerdema, R. S. (2003). Integrated assessment of the impacts of agricultural drainwater in the Salinas River (California, USA). *Environmental Pollution* 124: 523-532.

  Rejection Code: EFFLUENT.
- 53. Anderson, J. F. and Wojtas, M. A. (1986). Honey Bees (Hymenoptera: Apidae) Contaminated with Pesticides and Polychlorinated Biphenyls. *J.Econ.Entomol.* 79: 1200-1205.

  Rejection Code: SURVEY.
- 54. Anderson, T. D. and Lydy, M. J. \*. (2002). Increased toxicity to invertebrates associated with a mixture of atrazine and organophosphate insecticides. *Environmental Toxicology and Chemistry [Environ. Toxicol. Chem.]. Vol. 21, no. 7, pp. 1507-1514. Jul 2002.*Rejection Code: MIXTURE.
- 55. Anees, M. A. (1974). Changes in Starch-Gel Electrophoretic Pattern of Serum Proteins of a Freshwater Teleost Channa punctatus (Bloch), Exposed to Sublethal and Chronic Levels of Three Organophosphorus Insecticides. *Ceylon J.Sci.Biol.Sci.* 11: 53-57 (Used 5648 As Reference).
  - ; Habitat: A; Effect Codes: BCM
- 56. Anees, M. A. (1978). Haematological Abnormalities in a Freshwater Teleost, Channa punctatus (Bloch), Exposed to Sublethal and Chronic Levels of Three Organophosphorus Ins. *Int.J.Ecol.Environ.Sci.* 4: 53-60.
  - ; Habitat: A; Effect Codes: BCM,CEL
- 57. Anees, M. A. (1978). Hepatic Pathology in a Fresh-Water Teleost Channa punctatus (Bloch) Exposed to

Sub-lethal and Chronic Levels of Three Organophosphorus Insecticides. *Bull.Environ.Contam.Toxicol.* 19: 524-527.

- ; Habitat: A; Effect Codes: CEL
- 58. Anees, M. A. (1976). Intestinal Pathology in a Freshwater Teleost, Channa punctatus (Bloch) Exposed to Sub-lethal and Chronic Levels of Three Organophosphorus Insecticides. *Acta Physiol.Latinoam*. 26: 63-67.
  - ; Habitat: A; Effect Codes: CEL
- Angelidis, M. O., Markantonatos, P. G., Bacalis, N. C., and Albanis, T. A. (1996). Seasonal fluctuations of nutrients and pesticides in the basin of Evrotas River, Greece. *J. ENVIRON. SCI. HEALTH, PART A: ENVIRON. SCI. ENG. TOXIC HAZARD. SUBST. CONTROL. Vol. A31, no. 2, pp. 387-340.* 1996.
   Rejection Code: SURVEY.
- 60. Anjum, F. and Siddiqui, M. K. J. (1990). In Vitro Inhibition of Fish (Tilapia mossambica) Brain Ca2+ ATPase by Monocrotophos, Dimethoate, Diazinon and DDT. *Indian J.Exp.Biol.* 28: 488-489 . Rejection Code: IN VITRO.
- 61. ANJUM, F. and SIDDIQUI, M. KJ (1990). In vitro inhibition of fish (Tilapia mossambica) brain calcium-ATPase by monocrotophos, dimethoate, diazinon and DDT. *INDIAN J EXP BIOL*; 28 488-489. Rejection Code: IN VITRO.
- 62. Anon. (1999). Diazinon Sources in Runoff From the San Francisco Bay Region. *Watershed Protection Techniques [Watershed Prot. Tech.]. Vol. 3, no. 1, pp. 613-616. Apr 1999.*Rejection Code: SURVEY.
- 63. ANON (1985). REPORT OF THE WORKING GROUP OF THE PLANNING COMMISSION ON PESTICIDES INDUSTRY FOR THE SEVENTH FIVE YEAR PLAN. *PESTICIDES* (BOMBAY); 19 (9). 1985 (RECD. 1986). 11-20.

  Rejection Code: NO TOX DATA.
- 64. Anonymous (1972). Diazinon. *In: Tech.Bull., CIBA-BEIGY, Agric.Div., Ardsley, NY* 10 p. Rejection Code: NO CITATION/REVIEW.
- 65. ANONYMOUS (1999). This meeting contains abstracts of 42 papers, written in English, covering chemical studies of toxic substances and experimental studies in animals and tissue culture, including enzymology. *JOURNAL OF HEALTH SCIENCE*; 45 (1). 1999. P.1-P.42. Rejection Code: ABSTRACT.
- 66. Antharavally, B., Tepp, W., and DasGupta, B. R. \*. (1998). Status of Cys residues in the covalent structure of botulinum neurotoxin types A, B, and E. *Journal of Protein Chemistry [J. Protein Chem.]. Vol.* 17, no. 3, pp. 187-196. Apr 1998. Rejection Code: METHODS.
- 67. Antinolo, A., Carrillo-Hermosilla, F., Corrochano, A. E., Fernandez-Baeza, J., Lanfranchi, M., Otero, A., and Pellinghelli, M. A. (1999). Synthesis of new oxy and thiolate [hydro-tris(pyrazol-1-yl)borato] titanium and zirconium(IV) complexes. Molecular structure of [Ti(HB(3,5-Me2pz)3)Cl3]. *Journal of Organometallic Chemistry* 577: 174-180.

  Rejection Code: METHODS.
- 68. APLADA-SARLIS, P., MALATOU PT, MILIADIS GE, and LIAPIS KS (1997). Residues of organophosphorous and organochlorine pesticides in raw agricultural products of plant origin

- imported in Greece. *ANNALES DE L'INSTITUT PHYTOPATHOLOGIQUE BENAKI*; 18 41-52. Rejection Code: FATE.
- 69. Applegate, V. C., Howell, J. H., Hall, A. E. Jr., and Smith, M. A. (1957). Toxicity of 4,346 Chemicals to Larval Lampreys and Fishes. *Spec.Sci.Rep.Fish.No.207*, *Fish Wildl.Serv.*, *U.S.D.I.*, *Washington*, *D.C.* 157 p.
  - ; Habitat: A; Effect Codes: BEH,MOR
- 70. Appleton, Henry T. and Nakatsugawa, Tsutomu (1972). Paraoxon deethylation in the metabolism of parathion. *Pesticide Biochemistry and Physiology* 2: 286-294. Rejection Code: METABOLISM.
- 71. Areekul, S. (1987). Toxicity to Fishes of Insecticides Used in Paddy Fields and Water Resources. I. Laboratory Experiment. *Kasetsart J.20(2):164-178(1986)(THI)(ENG ABS) /C.A.Sel.-Environ.Pollut.* 12: 106-190732T.
  - ; Habitat: A; Effect Codes: MOR
- 72. Arias, Hugo Ruben (2000). Localization of agonist and competitive antagonist binding sites on nicotinic acetylcholine receptors. *Neurochemistry International* 36: 595-645. Rejection Code: NO TOX DATA.
- 73. Arienzo, M., Crisanto, T., Sanchez-Martin, M. J., and Sanchez-Camazano, M. (1994). Effect of Soil Characteristics on Adsorption and Mobility of (14C)Diazinon. *J.Agric.Food Chem.* 42: 1803-1808.

  Rejection Code: NO SPECIES.
- Arienzo M., Sanchez-Camazano M., Crisanto Herrero T., and Sanchez-Martin M. J. (1993). Effect of organic cosolvents on adsorption of organophosphorus pesticides by soils. *Chemosphere* 27: 1409-1417.
   Rejection Code: FATE.
- 75. Arienzo M., Sanchez-Camazano M., Sanchez-Martin M. J., and Crisanto T. (1994). Influence of exogenous organic matter in the mobility of diazinon in soils. *Chemosphere* 29: 1245-1252. Rejection Code: FATE.
- 76. Arienzo, M., Sanchez-Camazano, M., Sanchez-Martin, M. J., and Crisanto, T. (1994). Influence of Exogenous Organic Matter in the Mobility of Diazinon in Soils. *Chemosphere* 29: 1245-1252. Rejection Code: NO SPECIES.
- 77. Armstrong, Victoria T., Brzustowicz, Michael R., Wassall, Stephen R., Jenski, Laura J., and Stillwell, William (2003). Rapid flip-flop in polyunsaturated (docosahexaenoate) phospholipid membranes. *Archives of Biochemistry and Biophysics* 414: 74-82.

  <u>Rejection Code</u>: METHODS.
- 78. Arvinte, Tudor, Wahl, Philippe, and Nicolau, Claude (1987). Low pH fusion of mouse liver nuclei with liposomes bearing covalently bound lysozyme. *Biochimica et Biophysica Acta (BBA) Biomembranes* 899: 143-150.

  Rejection Code: METHODS.
- 79. Arzone, A. and Patetta, A. (1989). Researches on the Action of Azinphos-Methyl, Diazinon, Dithianon, Hexythiazox, Omethoate, and Propargite on Honeybees (Esame Dell'azione Sull'ape di Azinphosmethyl, Diazinon, Dithianon, Hexythiazox, Omethoate e Propargite. *Apic.Mod.* 80: 253-261 (POR) (ENG ABS).

## Rejection Code: NON-ENGLISH.

- 80. Asaka, A., Sakai, M., and Tan, N. (1980). Influences of Certain Environmental Factors on Fish Toxicity of Cartap . *J.Takeda Res.Lab.* 39: 28-33(JPN)(ENG ABS) .
  - ; Habitat: A; Effect Codes: MOR
- 81. Asensio, J. S., Barrio, C. S., Juez, M. T. G., and Bernal, J. G. (1991). Study of the decay of diazinon and chlorpyrifos in apple samples, using gas chromatography. *Food Chemistry [FOOD CHEM.]. Vol.* 42, no. 2, pp. 213-224. 1991.

  Rejection Code: FATE.
- 82. Atkins, E. L. and Kellum, D. (1986). Comparative Morphogenic and Toxicity Studies on the Effect of Pesticides on Honeybee Brood. *J.Apic.Res.* 25: 242-255.
  - ; Habitat: T
- 83. AUGER, J., BIRKETT MA, COATS, J., COHEN SZ, HAWKES TR, LUCCA, P., NARAYANAN KS, POTRYKUS, I., and ROBERTSON, A. (1998). All specialisations were catered for at the IUPAC conference (London, UK: August, 1998; IUPAC). *INTERNATIONAL PEST CONTROL; 40* 204-207.

  Rejection Code: ABSTRACT.
- 84. Axelrad, J. C., Howard, C. V., and McLean, W. G. (2003). The effects of acute pesticide exposure on neuroblastoma cells chronically exposed to diazinon. *Toxicology* 185: 67-78.

  <u>Rejection Code</u>: IN VITRO.
- 85. Axelrad, J. C., Howard, C. V., and McLean, W. G. (2002). Interactions between pesticides and components of pesticide formulations in an in vitro neurotoxicity test. *Toxicology* 173: 259-268. Rejection Code: IN VITRO.
- 86. Azmi, M. Ahmed, Naqvi, S. N. H., Azmi, M. Arshad, and Aslam, M. (Effect of pesticide residues on health and different enzyme levels in the blood of farm workers from Gadap (rural area) Karachi-Pakistan. *Chemosphere* In Press, Corrected Proof.

  Rejection Code: HUMAN HEALTH.
- 87. Azuma, T., Niiro, M., and Motobu, H. (1994). Removal of Pesticides from Wastewater at Golf Courses Using Plants (Removal by Mung Beans; Phaseolus radiatus L). *Bio-Med.Mater.Eng.* 4: 127-137.
  - ; Habitat: T; Effect Codes: GRO, ACC
- 88. Baatrup, E., Doving, K. B., and Winberg, S. (1990). Differential Effects of Mercurial Compounds on the Electroolfactogram (EOG) of Salmon (Salmo salar L.). *Ecotoxicol.Environ.Saf.* 20: 269-276.
  - ; Habitat: A; Effect Codes: PHY
- 89. Babcock, J. M. and Tanigoshi, L. K. (1988). Resistance Levels of Typhlodromus occidentalis (Acari: Phytoseiidae) from Washington Apple Orchards to Ten Pesticides. *Exp.Appl.Acarol.* 4: 151-157.
  - ; Habitat: T; Effect Codes: MOR
- 90. Babich, H., Rosenberg, D. W., and Borenfreund, E. (1991). In vitro cytotoxicity studies with the fish hepatoma cell line, PLHC-1 (Poeciliopsis lucida). *Ecotoxicology and Environmental Safety* 21: 327-336.

  Rejection Code: IN VITRO.

- 91. Baer, Hans H. and Radatus, Bruno (1986). Two syntheses of 3-amino-3-deoxy-[alpha]--altropyranosyl 3-amino-3-deoxy-[alpha]--altropyranoside, a new analog of [alpha],[alpha]-trehalose, involing reduction of a diazide and reductive amination of a diketone. *Carbohydrate Research* 157: 65-81. Rejection Code: METHODS.
- 92. BAGHERWAL RK, SISODIA RS, SHARMA, A., DHANOTIYA RS, and GHOSAL SB (1995). In vitro studies on the susceptibility of the tick-Hyalomma anatolicum anatolicum to acaricides using F.A.O. test kit. *INDIAN VETERINARY JOURNAL; 72* 332-335.

  Rejection Code: IN VITRO.
- 93. Baicu, T. (1982). Toxicity of Some Pesticides to Trichoderma viride Pers. Crop Prot. 1: 349-358.
  - ; Habitat: T; Effect Codes: POP
- 94. Bailey, H. C., Deanovic, L., Reyes, E., Kimball, T., Larson, K., Cortright, K., Connor, V., and Hinton, D. E. (2000). Diazinon and Chlorphyrifos in Urban Waterways in Northern California, USA. *Environ.Toxicol.Chem.* 19: 82-87.

  Rejection Code: EFFLUENT.
- 95. Bailey, H. C., Deanovic, L., Reyes, E., Kimball, T., Larson, K., Cortright, K., Connor, V., and Hinton, D. E. (2000). Diazinon and chlorpyrifos in urban waterways in northern California, USA.

  Environmental Toxicology and Chemistry [Environ. Toxicol. Chem.]. Vol. 19, no. 1, pp. 82-87.

  Jan 2000.

  Rejection Code: SURVEY.
- 96. Bailey, H. C., DiGiorgio, C., Kroll, K., Miller, J. L., Hinton, D. E., and Starrett, G. (1996). Development of procedures for identifying pesticide toxicity in ambient waters: Carbofuran, diazinon, chlorpyrifos. *Environmental Toxicology and Chemistry. Vol. 15, no. 6, pp. 837-845. Jun 1996.* Rejection Code: METHODS.
- 97. Bailey, H. C., Elphick, J. R., Krassoi, R., and Lovell, A. (2001). Joint acute toxicity of diazinon and ammonia to Ceriodaphnia dubia. *Environmental Toxicology and Chemistry [Environ. Toxicol. Chem.]. Vol. 20, no. 12, pp. 2877-2882. Dec 2001.*Rejection Code: EFFLUENT.
- 98. Bailey, H. C., Krassoi, R., Elphick, J. R., Mulhall, A. M., Hunt, P., Tedmanson, L., and Lovell, A. (2000). Application of Ceriodaphnia dubia for whole effluent toxicity tests in the Hawkesbury-Nepean watershed, New South Wales, Australia: Method development and validation. *Environmental Toxicology and Chemistry [Environ. Toxicol. Chem.]. Vol. 19, no. 1, pp. 88-93. Jan 2000.* Rejection Code: EFFLUENT.
- 99. Bailey, H. C., Krassoi, R., Elphick, J. R., Mulhall, A. M., Hunt, P., Tedmanson, L., and Lovell, A. (2000). Whole effluent toxicity of sewage treatment plants in the Hawkesbury-Nepean watershed, New South Wales, Australia, to Ceriodaphnia dubia and Selenastrum capricornutum. *Environmental Toxicology and Chemistry [Environ. Toxicol. Chem.]. Vol. 19, no. 1, pp. 72-81. Jan 2000.* Rejection Code: EFFLUENT.
- 100. Bajpai, V. N. and Perti, S. L. (1969). Resistance to Malathion. Pesticides 3: 43-45.
  - ; Habitat: A; Effect Codes: MOR
- 101. Balch, Curtis, Morris, Randal, Brooks, Elwood, and Sleight, Richard G. (1994). The use of N-(7-nitrobenz-2-oxa-1,3-diazole-4-yl)-labeled lipids in determining transmembrane lipid distribution. *Chemistry and Physics of Lipids* 70: 205-212.
  Rejection Code: METHODS.

- 102. Banert, Klaus (1985). Synthesis of new bi-2H-azirin-3-yl compounds from diazides. *Tetrahedron Letters* 26: 5261-5264.
  Rejection Code: METHODS.
- 103. Banks, Kenneth E., Hunter, David H., and Wachal, David J. (2005). Chlorpyrifos in surface waters before and after a federally mandated ban. *Environment International* 31: 351-356. <u>Rejection Code</u>: SURVEY.
- 104. Banks, Kenneth E., Hunter, David H., and Wachal, David J. (2005). Diazinon in surface waters before and after a federally-mandated ban. *Science of The Total Environment* 350: 86-93.

  <u>Rejection Code</u>: SURVEY.
- 105. Bankwitz, Uwe, Sohn, Honglae, Powell, Douglas R., and West, Robert (1995). Synthesis, solid-state structure, and reduction of 1,1-dichloro-2,3,4,5-tetramethylsilole. *Journal of Organometallic Chemistry* 499: C7-C9.

  Rejection Code: METHODS.
- 106. Banu, N., Mustafa, G., Khan, A. M., and Ahmed, M. (1984). Histopathological Effects of Diazinon on the Gonads of Freshwater Catfish, Heteropneustes fossilis (Bloch). *Dhaka Univ.Stud.Part B* 32(1): 17-23.
  - ; Habitat: A; Effect Codes: CEL
- 107. Baron, Anne, Rakotoarisoa, Lala, Lepretre, Nathalie, and Mironneau, Jean (1994). Inhibition of L-type Ca2+ channels in portal vein myocytes by the enantiomers of oxodipine. European Journal of Pharmacology: Molecular Pharmacology 269: 105-113.
  Rejection Code: IN VITRO.
- 108. Barr, D. B., Bravo, R., Weerasekera, G., Caltabiano, L. M., Whitehead, R. D. Jr, Olsson, A. O., Caudill, S. P., Schober, S. E., Pirkle, J. L., Sampson, E. J., Jackson, R. J., and Needham, L. L. (2004). Concentrations of Dialkyl Phosphate Metabolites of Organophosphorus Pesticides in the U.S. Population. *Environmental Health Perspectives [Environ. Health Perspect.]. Vol. 112, no. 2, pp. 186-200. Feb 2004.*Rejection Code: HUMAN HEALTH.
- 109. Bartlett, Danny, Glaser, Michael, and Welti, Ruth (1997). Membrane penetration depth and lipid phase preference of acyl-labeled dansyl phosphatidylcholines in phosphatidylcholine vesicles. Biochimica et Biophysica Acta (BBA) - Biomembranes 1328: 48-54. Rejection Code: METHODS.
- 110. Barzu, Tereza, Cuparencu, Barbu, and Hantz, Andrei (1973). Action of organophosphorus compounds on cell organelles--I: Effect of tetraethyl dithio pyrophosphate on lysosomal hydrolases. Biochemical Pharmacology 22: 185-194. Rejection Code: IN VITRO.
- 111. BATEMAN, P. (1993). GOOD PEST CONTROL IN FOOD PROCESSING IS POSSIBLE WITH MINIMUM PESTICIDE USAGE. *INT PEST CONTROL; 35* 68-69. Rejection Code: HUMAN HEALTH.
- 112. Batenburg, A. M., Hibbeln, J. C. L., Verkleij, A. J., and de Kruijff, B. (1987). Melittin induces HII phase formation in cardiolipin model membranes. *Biochimica et Biophysica Acta (BBA) Biomembranes* 903: 142-154.

  Rejection Code: METHODS.
- 113. Bathe, R., Sachsse, K., Ullmann, L., Hormann, W. D., Zak, F., and Hess, R. (1975). The Evaluation of Fish

Toxicity in the Laboratory. Proc.Eur.Soc.Toxicol. 16: 113-124.

- ; Habitat: A; Effect Codes: MOR, ACC, CEL
- 114. Bauer, N. J., Seidler, R. J., and Knittel, M. D. (1981). A Simple, Rapid Bioassay for Detecting Effects of Pollutants on Bacteria. *Bull.Environ.Contam.Toxicol.* 27: 577-582. <u>Rejection Code</u>: BACTERIA.
- 115. Bay, S., Burgess, R., and Nacci, D. (1993). Status and Applications of Echinoid (Phylum Echinodermata) Toxicity Test Methods. *In: W.G.Landis, J.S.Hughes, and M.A.Lewis (Eds.), Environmental Toxicology and Risk Assessment, ASTM STP 1179, Philadelphia, PA* 281-302.
  - ; Habitat: A; Effect Codes: REP,GRO
- 116. Beavis, C., Simpson, P., Syme, J., and Ryan, C. (1991). Chemicals for the Protection of Field Crops, Forage Crops, and Pastures. Queensland Dep. of Primary Ind. Info. Ser. No. QI91006, Infopest: Chemicals for the Protection of Field Crops, Forage Crops, and Pastures, 2nd Edition, Brisbane, Queensland, Australia 312 p.
  Rejection Code: NO TOX DATA.
- 117. Beavis, C., Simpson, P., Syme, J., and Ryan, C. (1991). Chemicals for the Protection of Fruit and Nut Crops. Queensland Dep. of Primary Ind. Info. Ser. No. Q191004, Infopest: Chemicals for the Protection of Field Crops, Forage Crops, and Pastures, 2nd Edition, Brisbane, Queensland, Australia 312 p. Rejection Code: NO TOX DATA.
- 118. Beavis, C., Simpson, P., Syme, J., and Ryan, C. (1991). Chemicals for the Protection of Ornamentals and Turf. Queensland Dep. of Primary Ind. Info. Ser. No. QI91003, Infopest: Chemicals for the Protection of Field Crops, Forage Crops, and Pastures, 2nd Edition, Brisbane, Queensland, Australia 312 p. Rejection Code: NO TOX DATA.
- 119. Beavis, C., Simpson, P., Syme, J., and Ryan, C. (1991). Chemicals for the Protection of Vegetable Crops. Queensland Dep. of Primary Ind. Info. Ser. No. QI91005, Infopest: Chemicals for the Protection of Field Crops, Forage Crops, and Pastures, 2nd Edition, Brisbane, Queensland, Australia 312 p. Rejection Code: NO TOX DATA.
- 120. Beliles, R., Scott, W., and Knott, W. (1965). Diazinon Summary of Safety Evaluation on Fish and Wildlife. *U.S.EPA-OPP Registration Standard*.
  - ; Habitat: A; Effect Codes: GRO
- 121. Bell, J. P. and Tsezos, M. (1988). The selectivity of biosorption of hazardous organics by microbial biomass. *Water Research* 22: 1245-1251.

  <u>Rejection Code</u>: BACTERIA.
- 122. Bendich, Aaron and Clements, Grace C. (1953). A revision of the structural formulation of vicine and its pyrimidine aglucone, divicine. *Biochimica et Biophysica Acta* 12: 462-477.

  <u>Rejection Code</u>: METHODS.
- 123. Bental, Michal, Lelkes, Peter, Scholma, Janny, Hoekstra, Dick, and Wilschut, Jan (1984). Ca2+independent, protein-mediated fusion of chromaffin granule ghosts with liposomes. *Biochimica et Biophysica Acta (BBA) Biomembranes* 774: 296-300.
  Rejection Code: METHODS.

- 124. Bental, Michal, Wilschut, Jan, Scholma, Janny, and Nir, Shlomo (1987). Ca2+-induced fusion of large unilamellar phosphatidylserine/cholesterol vesicles. *Biochimica et Biophysica Acta (BBA) Biomembranes* 898: 239-247.

  <u>Rejection Code</u>: METHODS.
- 125. BENTLEY GR and HEATH, A. CG (1988). ORGANOPHOSPHATE RESIDUES IN THE WOOL OF SHEEP DIPPED FOR FLYSTRIKE CONTROL AU RAMMELL CG. NZJAGRIC RES; 31 151-154.

  Rejection Code: FATE.
- 126. Benuck, M., Reith, M. E. A., Sershen, H., Wiener, H. L., and Lajtha, A. (1989). Oxidative metabolism of cocaine: Comparison of brain and liver. *Proceedings of the Society for Experimental Biology and Medicine [PROC. SOC. EXP. BIOL. MED.]. Vol. 190, no. 1, pp. 7-13. 1989.*Rejection Code: METABOLISM.
- 127. Berger, Christine, Piubelli, Luciano, Haditsch, Ursula, and Rudolf Bosshard, Hans (1998). Diffusion-controlled DNA recognition by an unfolded, monomeric bZIP transcription factor. FEBS Letters 425: 14-18.
  Rejection Code: METHODS.
- 128. Bergmann, Felix and Shimoni, Arela (1952). Quaternary ammonium salts as inhibitors of acetylcholine esterase. *Biochimica et Biophysica Acta* 8: 520-525.

  Rejection Code: IN VITRO.
- 129. Berman, Ann, Shearing, Lee N., Ng, Ken F., Jinsart, Wanida, Foley, Michael, and Tilley, Leann (1994). Photoaffinity labelling of Plasmodium falciparum proteins involved in phospholipid transport. Molecular and Biochemical Parasitology 67: 235-243. Rejection Code: IN VITRO.
- 130. Berry, W. K. (1971). Some species differences in the rates of reaction of diaphragm particulate acetylcholinesterases with tetraethyl pyrophosphate and pralidoxime. *Biochemical Pharmacology* 20: 1333-1334.
  <u>Rejection Code</u>: MIXTURE.
- 131. Beyers, D. W. and Farmer, M. S. (2001). Effects of Copper on Olfaction of Colorado Pikeminnow. *Environ.Toxicol.Chem.* 20: 907-912.
  - ; Habitat: A; Effect Codes: BEH,CEL
- 132. BEZBARUAH, B., BORA, T., and SAIKIA, N. (1999). Ureolytic nitrification activities in forest and tea (Camellia sinensis) plantation soils and evaluation of ureolytic nitrifier sensitivity to pesticides. *INDIAN JOURNAL OF AGRICULTURAL SCIENCES*; 69 24-29.

  Rejection Code: FATE.
- 133. Bianchi, L., Zannoli, A., Pizzala, R., Stivala, L. A., and Chiesara, E. (1994). Genotoxicity assay of five pesticides and their mixtures in Saccharomyces cerevisiae D7. *Mutation Research/Genetic Toxicology* 321: 203-211.
  Rejection Code: YEAST.
- 134. Bianchi, L., Zannoli, A., Pizzala, R., Stivala, L. A., and Chiesara, E. (1994). Genotoxicity Assay of Five Pesticides and Their Mixtures in Saccharomyces cerevisiae D7. *Mutat.Res.* 321: 203-211. Rejection Code: MIXTURE/YEAST.
- 135. Bianchi-Santamaria, A., Gobbi, M., Cembran, M., and Arnaboldi, A. (1997). Human lymphocyte micronucleus genotoxicity test with mixtures of phytochemicals in environmental concentrations.

Mutation Research-Genetic Toxicology and Environmental Mutagenesis. Vol. 388, no. 1, pp. 27-32. Jan 1997.

Rejection Code: HUMAN HEALTH.

- 136. Bishop, C. A., Mahony, N. A., Struger, J., Ng, P., and Pettit, K. E. (1999). Anuran Development, Density and Diversity in Relation to Agricultural Activity in the Holland River Watershed, Ontario, Canada (1990-1992). *Environ.Monit.Assess.* 57: 21-43.
  Rejection Code: EFFLUENT/SURVEY.
- 137. Bisson, M. and Hontela, A. (Cytotoxic and Endocrine-Disrupting Potential of Atrazine, Diazinon, Endosulfan, and Mancozeb in Adrenocortical Steroidogenic Cells of Rainbow Trout Exposed in Vitro. *Toxicol appl pharmacol. 2002, apr 15; 180(2):110-7. [Toxicology and applied pharmacology]: Toxicol Appl Pharmacol.*Rejection Code: IN VITRO.
- 138. Bisson, Marjolaine and Hontela, Alice (2002). Cytotoxic and Endocrine-Disrupting Potential of Atrazine, Diazinon, Endosulfan, and Mancozeb in Adrenocortical Steroidogenic Cells of Rainbow Trout Exposed in Vitro. *Toxicology and Applied Pharmacology* 180: 110-117. <u>Rejection Code</u>: IN VITRO.
- 139. Blackburn, G. Michael and Taylor, Graham E. (1988). Syntheses of some fluorine-containing halomethanephosphonate and methylenebisphosphonate esters. *Journal of Organometallic Chemistry* 348: 55-61. Rejection Code: METHODS.
- 140. Blank, R. H., Olson, M. H., Tomkins, A. R., Greaves, A. J., Waller, J. E., and Pulford, W. M. (1994). Phytotoxicity Investigations of Mineral Oil and Diazinon Sprays Applied to Kiwifruit in Winter-Spring for Armoured Scale Control. *N.Z.J.Crop Hortic.Sci.* 22: 195-202. Rejection Code: MIXTURE.
- 141. BLANK RH, HOLLAND PT, GILL, G. SC, OLSON MH, and MALCOLM CP (1995). Efficacy and persistence of insecticide residues on fruit of kiwifruit to prevent greedy scale (Hemiptera: Diaspididae) crawler settlement. NEW ZEALAND JOURNAL OF CROP AND HORTICULTURAL SCIENCE; 23 13-23.
  Rejection Code: FATE.
- 142. BLANK RH, OLSON MH, TOMKINS AR, GREAVES AJ, WALLER JE, and PULFORD WM (1994). Phytotoxicity investigations of mineral oil and diazinon sprays applied to kiwifruit in winterspring for armoured scale control. *NEW ZEALAND JOURNAL OF CROP AND HORTICULTURAL SCIENCE*; 22 195-202.

  Rejection Code: MIXTURE.
- 143. Bleiberg, Marvin J., Cefaratti, Michael, Klinman, Norman, and Kornblith, Paul (1962). Studies of choline acetylase inhibition by DDA (dichlorodiphenylacetic acid) and its possible relationship to DDT toxicity. *Toxicology and Applied Pharmacology* 4: 292-312.
  Rejection Code: IN VITRO.
- 144. Bleih, S., De Sagun, S. B., and Ramachandran, R. (1991). Comparative Observations on the Pest and Disease Incidence and Yield Losses of Japonica, Indica and Japonica x Indica Rices. *Trop.Pest Manag.* 37: 290-295.
  Rejection Code: MIXTURE.
- 145. Blickenstaff, C. C. and Skoog, F. E. (1974). Insecticides Tested Versus Grasshoppers: Correlations Between Results of Ground and Aerial Applications. *J.Econ.Entomol.* 67: 127-129.

- ; Habitat: T
- Blow, D. P. (1978). Laboratory Evaluation of Permethrin Against Cockroaches and the Rust-Red Flour Beetle. *Int. Biodeterior. Bull.* 14: 71-76.
  - ; Habitat: T; Effect Codes: MOR, BEH
- 147. BOLLAG J-M and LIU S-Y (1990). BIOLOGICAL TRANSFORMATION PROCESSES OF PESTICIDES. CHENG, H. H. (ED.). SSSA (SOIL SCIENCE SOCIETY OF AMERICA) BOOK SERIES, NO. 2. PESTICIDES IN THE SOIL ENVIRONMENT: PROCESSES, IMPACTS, AND MODELING. XXIII+530P. SOIL SCIENCE SOCIETY OF AMERICA, INC.: MADISON, WISCONSIN, USA. ILLUS. ISBN 0-89118-791-X.; 0 (0). 1990. 169-212. Rejection Code: FATE.
- 148. Bondarenko, S. and Gan, J. \*. (2004). Degradation and sorption of selected organophosphate and carbamate insecticides in urban stream sediments. *Environmental Toxicology and Chemistry [Environ. Toxicol. Chem.]. Vol. 23, no. 8, pp. 1809-1814. Aug 2004.*Rejection Code: FATE.
- 149. Bondarenko, S., Gan, J., Haver, D. L., and Kabashima, J. N. (2004). Persistence of selected organophosphate and carbamate insecticides in waters from a coastal watershed. *Environmental Toxicology and Chemistry [Environ. Toxicol. Chem.]. Vol. 23, no. 11, pp. 2649-2654. Nov 2004.* Rejection Code: FATE.
- 150. Bondeson, Jan and Sundler, Roger (1987). Phosphatidylethanol counteracts calcium-induced membrane fusion but promotes proton-induced fusion. *Biochimica et Biophysica Acta (BBA) Biomembranes* 899: 258-264.

  Rejection Code: METHODS.
- 151. Bondeson, Jan and Sundler, Roger (1990). Promotion of acid-induced membrane fusion by basic peptides. Amino acid and phospholipid specificities. *Biochimica et Biophysica Acta (BBA) - Biomembranes* 1026: 186-194.
  <u>Rejection Code</u>: METHODS.
- 152. Bondeson, Jan, Wijkander, Jonny, and Sundler, Roger (1984). Proton-induced membrane fusion role of phospholipid composition and protein-mediated intermembrane contact. *Biochimica et Biophysica Acta (BBA) Biomembranes* 777: 21-27. Rejection Code: METHODS.
- 153. Boni, L. T., Minchey, S. R., Perkins, W. R., Ahl, P. L., Slater, J. L., Tate, M. W., Gruner, S. M., and Janoff, A. S. (1993). Curvature dependent induction of the interdigitated gel phase in DPPC vesicles. *Biochimica et Biophysica Acta (BBA) - Biomembranes* 1146: 247-257.

  <u>Rejection Code</u>: METHODS.
- 154. Boumaiza, M., Ktari, M. H., and Vitiello, P. (1979). Toxicity of Several Pesticides Used in Tunisia, for Aphanius fasciatus Nardo, 1827 (Pisces, Cyprinodontidae). *Arch.Inst.Pasteur Tunis* 56: 307-342 (FRE).
  - ; Habitat: A; Effect Codes: MOR
- 155. Boxall, Alistair B. A., Fogg, Lindsay A., Kay, Paul, Blackwell, Paul A., Pemberton, Emma J., and Croxford, Andy (2003). Prioritisation of veterinary medicines in the UK environment: Hot Spot Pollutants: Pharmaceuticals in the Environment. *Toxicology Letters* 142: 207-218. Rejection Code: REVIEW, METHODS.

- 156. Boyd, J. E. (1957). The Use of Daphnia magna in the Microbioassay of Insecticides. *Ph.D.Thesis, Penn.State University, University Park, PA* 194.
  - ; Habitat: A; Effect Codes: MOR, PHY
- 157. Brack, M. and Rothe, H. (1982). Organophosphate Poisoning in Marmosets. *Lab.Anim.* 16: 186-188. Rejection Code: INCIDENT/MONKEY.
- 158. Brady, J. A., Wallender, W. W., Werner, I., Fard, B. Mostafazadeh, Zalom, F. G., Oliver, M. N., Wilson, B. W., Mata, M. M., Henderson, J. D., Deanovic, L. A., and Upadhaya, S. (2006). Pesticide runoff from orchard floors in Davis, California, USA: A comparative analysis of diazinon and esfenvalerate. *Agriculture, Ecosystems & Environment* 115: 56-68. Rejection Code: FATE.
- 159. Bratton, Donna L., Harris, R. Adron, Clay, Keith L., and Henson, Peter M. (1988). Effects of platelet activating factor on calcium-lipid interactions and lateral phase separations in phospholipid vesicles. *Biochimica et Biophysica Acta (BBA) Biomembranes* 943: 211-219.

  <u>Rejection Code</u>: METHODS.
- 160. Brattsten, L. B., Holyoke, C. W. Jr., Leeper, J. R., and Raffa, K. F. (1986). Insecticide Resistance: Challenge to Pest Management and Basic Research. *Science* 231: 1255-1260. Rejection Code: REVIEW.
- 161. Brattsten, L. B., Holyoke, C. W. Jr., Leeper, J. R., and Raffa, K. F. (1986). Insecticide Resistance: Challenge to Pest Management and Basic Research. *Science* 231: 1255-1260. Rejection Code: REVIEW.
- 162. Braun, H. E. and Frank, R. (1980). Organochlorine and organophosphorus insecticides: Their use in eleven agricultural watersheds and their loss to stream waters in Southern Ontario, Canada, 1975-1977. The Science of The Total Environment 15: 169-192. Rejection Code: FATE.
- 163. Braunbeck, T. (1994). Detection of Environmentally Relevant Concentrations of Toxic Organic Compounds Using Histological and Cytological Parameters: Substance-Specificity in the Reaction of Rainbow Trout Liver? *In: R.Muller and R.Lloyd (Eds.), Sublethal and Chronic Effects of Pollutants on Freshwater Fish, Chapter 2, Fishing News Books, London* 15-29.
  - ; Habitat: A; Effect Codes: CEL
- 164. Bresch, H. (1991). Early Life-Stage Test in Zebrafish Versus a Growth Test in Rainbow Trout to Evaluate Toxic Effects. *Bull.Environ.Contam.Toxicol.* 46: 641-648.
  - ; Habitat: A; Effect Codes: MOR,GRO
- 165. Brewer, Gregory J. and Thomas, P. D. (1984). Role of gangliosides in adhesion and conductance changes in large spherical model membranes. *Biochimica et Biophysica Acta (BBA) Biomembranes* 776: 279-287.
  Rejection Code: METHODS.
- 166. BRIGANTI, F. and WILD JR (1997). PROTEIN ENGINEERING FOR IMPROVED
  BIODEGRADATION OF RECALCITRANT POLLUTANTS AU MASON JR. WILD, J. R., S.
  D. VARFOLOMEYEV AND A. SCOZZAFAVA (ED.). NATO ASI SERIES 3 HIGH
  TECHNOLOGY, VOL. 19. PERSPECTIVES IN BIOREMEDIATION: TECHNOLOGIES FOR
  ENVIRONMENTAL IMPROVEMENT; 1995 NATO ADVANCED RESEARCH WORKSHOP ON
  BIOTECHNOLOGICAL REMEDIATION OF CONTAMINATED SITES, LVIV, UKRAINE,

MARCH 5-9, 1995. XVI+123P. KLUWER ACADEMIC PUBLISHERS: DORDRECHT, NETHERLANDS; NORWELL, MASSACHUSETTS, USA. ISBN 0-7923-4339-5.; 19 (0). 1997. 107-118.

Rejection Code: NO TOX DATA.

- 167. Brimer, L., Bak, H., and Henriksen, S. (2004). Rapid quantitative assay for acaricidal effects on Sarcoptes scabiei var. suis and Otodectes cynotis. *Experimental and Applied Acarology [Exp. Appl. Acarol.]. Vol. 33, no. 1-2, pp. 81-91. 2004.*Rejection Code: METHODS.
- 168. Bringmann, G. and Kuhn, R. (1960). The Water-Toxicological Detection of Insecticides (Zum Wasser-Toxikologischen Nachweis von Insektiziden). *Gesund.Ing.* 8: 243-244 (GER) (ENG ABS).
  - ; Habitat: A; Effect Codes: MOR
- 169. BRISTOW PR and WINDOM GE (1987). EFFECTS OF SELECTED FUNGICIDES INSECTICIDES AND ADJUVANTS ON IN-VITRO GERMINATION OF HIGHBUSH BLUEBERRY POLLEN. *PLANT DIS; 71* 326-328.

  Rejection Code: IN VITRO.
- 170. Britton, L. N., Brand, J. M, and Markovetz, A. J. (1974). Source of oxygen in the conversion of 2-tridecanone to undecyl acetate by Pseudomonas cepacia and Nocardia sp. *Biochimica et Biophysica Acta (BBA) Lipids and Lipid Metabolism* 369: 45-49.

  Rejection Code: NO TOX DATA.
- 171. BROMAND, B. (1996). ON THE PROBLEMS OF MINOR USE IN DENMARK. PALLUTT, W. AND H.-H. SCHMIDT. MITTEILUNGEN AUS DER BIOLOGISCHEN BUNDESANSTALT FUER LAND- UND FORSTWIRTSCHAFT BERLIN-DAHLEM, HEFT 324; (COMMUNICATIONS FROM THE FEDERAL BIOLOGICAL INSTITUTE FOR AGRICULTURE AND FORESTRY BERLIN-DAHLEM, NO. 324); 2ND INTERNATIONAL SYMPOSIUM ON MINOR USES CALLED BY THE FEDERAL BIOLOGICAL RESEARCH CENTRE FOR AGRICULTURE AND FORESTRY, JUNE 11-13, 1996. 145P. BIOLOGISCHE BUNDESANSTALT FUER LAND- UND FORSTWIRTSCHAFT: BERLIN-DAHLEM, GERMANY. ISBN 3-8263-3129-X.; 0 (324). 1996. 103-110.

  Rejection Code: NO TOX DATA.
- 172. Brown B., Silvia V., Stanislawski, Aimee, Perry, Quinesha L., and Williams, Noreen (2001). Cloning and characterization of the subunits comprising the catalytic core of the Trypanosoma brucei mitochondrial ATP synthase. *Molecular and Biochemical Parasitology* 113: 289-301.

  Rejection Code: METHODS.
- 173. Brown Jeffrey S and Bay Steven M (2005). Organophosphorus pesticides in the Malibu Creek Watershed. Rejection Code: SURVEY.
- Brown, K. A. (1980). Phosphotriesterases of flavobacterium sp. Soil Biology and Biochemistry 12: 105-112.
   Rejection Code: METHODS.
- 175. Brown, Pamela M. and Silvius, John R. (1990). Mechanisms of delivery of liposome-encapsulated cytosine arabinoside to CV-1 cells in vitro. Fluorescence-microscopic and cytotoxicity studies . *Biochimica et Biophysica Acta (BBA) - Biomembranes* 1023: 341-351. <u>Rejection Code</u>: METHODS.
- 176. Brun, E. M., Garces-Garcia, M., Escuin, E., Morais, S., Puchades, R., and Maquieira, A. \*. (2004).

  Assessment of Novel Diazinon Immunoassays for Water Analysis. *Environmental Science &*

- Technology [Environ. Sci. Technol.]. Vol. 38, no. 4, pp. 1115-1123. 15 Feb 2004. Rejection Code: METHODS.
- 177. Brunetto, Rosario, Burguera, M., and Burguera, J. L. (1992). Organophosphorus pesticide residues in some watercourses from Merida, Venezuela. *The Science of The Total Environment* 114: 195-204.

  <u>Rejection Code</u>: FATE.
- 178. Brunner, H. and Schellerer, K. M. (2003). New porphyrin platinum conjugates for the cytostatic and photodynamic tumor therapy: Protagonists in Chemistry: Pierre Braunstein. *Inorganica Chimica Acta* 350: 39-48.

  <u>Rejection Code</u>: METHODS.
- 179. Buboltz, Jeffrey T. and Feigenson, Gerald W. (1999). A novel strategy for the preparation of liposomes: rapid solvent exchange. *Biochimica et Biophysica Acta (BBA) Biomembranes* 1417: 232-245. Rejection Code: METHODS.
- 180. Buratti, F. M., Volpe, M. T., Fabrizi, L., Meneguz, A., Vittozzi, L., and Testai, E. \*. (2002). Kinetic parameters of OPT pesticide desulfuration by c-DNA expressed human CYPs. *Environmental Toxicology and Pharmacology [Environ. Toxicol. Pharmacol.]. Vol. 11, no. 3-4, pp. 181-190. Jul 2002.*Rejection Code: HUMAN HEALTH.
- 181. Buratti, F. M., Volpe, M. T., Meneguz, A., Vittozzi, L., and Testai, E. \*. (2003). CYP-specific bioactivation of four organophosphorothioate pesticides by human liver microsomes. *Toxicology and Applied Pharmacology [Toxicol. Appl. Pharmacol.]. Vol. 186, no. 3, pp. 143-154. 1 Feb 2003.*Rejection Code: HUMAN HEALTH.
- 182. Buratti Franca M, D'aniello Alessandra, Volpe Maria Teresa, Meneguz Annarita, and Testai Emanuela (2005). Malathion bioactivation in the human liver: The contribution of different cytochrome P450 isoforms. *Drug Metabolism and Disposition [Drug Metab. Disposition]. Vol. 33, no. 3, pp. 295-302. Mar 2005.*Rejection Code: HUMAN HEALTH.
- 183. BURCHAT CS, RIPLEY BD, LEISHMAN PD, RITCEY GM, KAKUDA, Y., and STEPHENSON GR (1998). The distribution of nine pesticides between the juice and pulp of carrots and tomatoes after home processing. FOOD ADDITIVES AND CONTAMINANTS; 15 61-71.

  Rejection Code: FATE.
- 184. Burchfield, H. P. and Storrs, E. E. (1954). Kinetics of Insecticidal Action Based on the Photomigration of Larvae of Aedes aegypti (L.). *Contrib.Boyce Thompson Inst.* 17: 439-452.
  - ; Habitat: A; Effect Codes: PHY
- 185. Burgess, Helen and Donnelly, John A. (1991). The reactions of halogenated phenylnitromethanes with triethyl phosphite. *Tetrahedron* 47: 111-120.

  <u>Rejection Code</u>: METHODS.
- 186. Burkhard, L. P. and Jenson, J. J. (1993). Identification of Ammonia, Chlorine, and Diazinon as Toxicants in a Municipal Effluent. *Arch.Enivron.Contam.Toxicol.* 25: 506-515. Rejection Code: EFFLUENT.
- 187. Buscher, Hans-Peter, Gerok, Wolfgang, Kollinger, Michael, Kurz, Gerhart, Muller, Michael, Nolte, Achim, and Schneider, Stephan (1988). Transport systems for amphipathic compounds in normal and neoplastic hepatocytes. *Advances in Enzyme Regulation* 27: 153-158.

- Rejection Code: IN VITRO.
- 188. Bushway, R. J. and Fan, Z. (1998). Complementation of GC-AED and ELISA for the determination of Diazinon and Chlorpyrifos in fruits and vegetables. *Journal of Food Protection*, 61 (6) pp. 708-711, 1998.
  Rejection Code: METHODS.
- 189. Butler, G. L., Deason, T. R., and O'Kelley, J. C. (1975). The Effect of Atrazine, 2,4-D, Methoxychlor, Carbaryl and Diazinon on the Growth of Planktonic Algae. *Br.Phycol.J.* 10: 371-376.
  - ; Habitat: A; Effect Codes: POP
- 190. Butler, G. L., Deason, T. R., and O'Kelley, J. C. (1975). Loss of Five Pesticides from Cultures of Twenty-One Planktonic Algae. *Bull.Environ.Contam.Toxicol.* 13: 149-152.
  - ; Habitat: A; Effect Codes: ACC
- 191. Butler, P. A. (1963). Commercial Fisheries Investigations. *Circ.No.167*, Fish Wildl.Serv., Washington, D.C. 11-25.
  - ; Habitat: A; Effect Codes: NOC,GRO,MOR,BEH,PHY
- 192. Butler, P. A. (1963). Commercial Fisheries Investigations. *Circ.No.167*, Fish Wildl.Serv., Washington, D.C. 11-25.
- 193. Byford, R. L., Craig, M. E., DeRouen, S. M., Kimball, M. D., Morrison, D. G., Wyatt, W. E., and Foil, L. D. (1999). Influence of Permethrin, Diazinon and Ivermectin Treatments on Insecticide Resistance in the Horn Fly (Diptera: Muscidae). *Int.J.Parasitol.* 29: 125-135.
  - ; Habitat: T; Effect Codes: POP,MOR
- 194. Byrne, Dennis H. and Kitos, Paul A. (1983). Teratogenic effects of cholinergic insecticides in chick embryos--IV: The role of tryptophan in protecting against limb deformities. *Biochemical Pharmacology* 32: 2881-2890.
  <u>Rejection Code</u>: IN VITRO.
- 195. CABRAS, P., ANGIONI, A., GARAU VL, MELIS, M., PIRISI FM, CABITZA, F., and CUBEDDU, M. (1998). Pesticide residues on field-sprayed apricots and in apricot drying processes. *JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY*; 46 2306-2308.
  <u>Rejection Code</u>: FATE.
- 196. CABRAS, P., ANGIONI, A., GARAU VL, MELIS, M., PIRISI FM, KARIM, M., and MINELLI EV (1997). Persistence of insecticide residues in olives and olive oil. *JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY; 45* 2244-2247.

  Rejection Code: FATE.
- 197. CABRAS, P., ANGIONI, A., GARAU VL, PIRISI FM, BRANDOLINI, V., CABITZA, F., and CUBEDDU, M. (1998). Pesticide residues in prune processing. *JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY*; 46 3772-3774.

  Rejection Code: HUMAN HEALTH.
- 198. CAMEL, V. and BERMOND, A. (1998). The use of ozone and associated oxidation processes in drinking water treatment. *WATER RESEARCH*; 32 3208-3222.

  <u>Rejection Code</u>: METHODS.

- 199. Campbell, H., Kappagoda, C. T., Ravi, K., and Bravo, E. (1996). The Effect of Diazinon Plus on Rapidly Adapting Receptors in the Rabbit. Fourteenth international neurotoxicology conference, hot springs, arkansas, usa, october 13-16, 1996. Neurotoxicology (little rock) 17: 950.

  Rejection Code: ABSTRACT.
- 200. Campbell, H., Ravi, K., Bravo, E., and Kappagoda, C. T. (1996). Effect of Diazinon PLUS on Rapidly Adapting Receptors in the Rabbit. *J.Appl.Physiol.* 81: 2604-2610. Rejection Code: INHALE.
- CAMPBELL, H., RAVI, K., BRAVO, E., and KAPPAGODA CT (1996). Effect of Diazinon PLUS on rapidly adapting receptors in the rabbit. *JOURNAL OF APPLIED PHYSIOLOGY*; 81 2604-2610. <u>Rejection Code</u>: INHALE.
- 202. Capdevila, Jorge, Perry, Albert S., and Agosin, Moises (1974). Spectral and catalytic properties of cytochrome P-450 from a diazinon-resistant housefly strain. *Chemico-Biological Interactions* 9: 105-116.
  Rejection Code: NO TOX DATA.
- 203. Carey, A. E., Wiersma, G. B., Tai, H., and Mitchell, W. G. (1973). Organochlorine Pesticide Residues in Soils and Crops of the Corn Belt Region, United States 1970. *Pestic.Monit.J.* 6: 369-376. Rejection Code: SURVEY.
- Carino, Lourminia A. and Montgomery, M. W. (1968). Identification of some soluble esterases of the carrot (Daucus carota L.). *Phytochemistry* 7: 1483-1490.
   <u>Rejection Code</u>: IN VITRO.
- 205. Carlson, Kathryn E., Coppey, Maite, Magdelenat, Henri, and Katzenellenbogen, John A. (1989). Receptor binding of NBD-labeled fluorescent estrogens and progestins in whole cells and cell-free preparations. *Journal of Steroid Biochemistry* 32: 345-355.
  Rejection Code: METHODS.
- 206. CARLTON WW (1985). THIRD SYMPOSIUM ON PROPHYLAXIS AND TREATMENT OF CHEMICAL POISONING STOCKHOLM SWEDEN APRIL 22-24 1985. FUNDAM APPL TOXICOL; 5 (6 PART 2). 1985 (RECD. 1986). S1-S279.

  Rejection Code: HUMAN HEALTH.
- 207. Carr, Russell L. and Chambers, Janice E. (1996). Kinetic Analysis of thein VitroInhibition, Aging, and Reactivation of Brain Acetylcholinesterase from Rat and Channel Catfish by Paraoxon and Chlorpyrifos-oxon. *Toxicology and Applied Pharmacology* 139: 365-373. <u>Rejection Code</u>: NO TOX DATA.
- 208. Carruthers, C. and Baumler, A. (1961). Esterase distribution in mouse liver. *Archives of Biochemistry and Biophysics* 94: 351-357.

  Rejection Code: NO TOX DATA.
- 209. Carvalho, F. P., Villeneuve, J. P., Cattini, C., Tolosa, I., Montenegro-Guillen, S., Lacayo, M., and Cruz, A. (2002). Ecological risk assessment of pesticide residues in coastal lagoons of Nicaragua. *Journal of Environmental Monitoring [J. Environ. Monit.]. Vol. 4, no. 5, pp. 778-787. Oct 2002.*Rejection Code: SURVEY.
- 210. CASTELLA J-C, JOURDAIN, D., TREBUIL, G., and NAPOMPETH, B. (1999). A systems approach to understanding obstacles to effective implementation of IPM in Thailand: Key issues for the cotton industry. *AGRICULTURE ECOSYSTEMS & ENVIRONMENT*; 72 17-34.

  Rejection Code: NO TOX DATA.

- 211. Cavret, S., Videmann, B., Mazallon, M., and Lecoeur, S. (2005). Diazinon cytotoxicity and transfer in Caco-2 cells: Effect of long-term exposure to the pesticide. *Environmental Toxicology and Pharmacology* 20: 375-380.

  <u>Rejection Code</u>: IN VITRO.
- 212. Cech, F. and Zbiral, E. (1975). Zum verhalten konjugierter diene gegenuber C6H5J(OAc)2-(CH3)3SiN3. *Tetrahedron* 31: 605-612. <u>Rejection Code</u>: METHODS.
- 213. Cha, Shin Woo, Gu, Hee Kyoung, Lee, Ki Poong, Lee, Mun Han, Han, Sang Seop, and Jeong, Tae Cheon (2000). Immunotoxicity of ethyl carbamate in female BALB/c mice: role of esterase and cytochrome P450. *Toxicology Letters* 115: 173-181.

  Rejection Code: MIXTURE.
- 214. Chalfant, R. B., Hall, M. R., Johnson, A. W., Seal, D. R., and BONDARI, K. (1992). Effects of Application Methods, Timing, and Rates of Insecticides and Nematicides on Yield and Control of Wireworms (Coleoptera: Elateridae) and Nematodes (Tylenchida: Heteroderidae) that Affect Sweet Potato. *J.Econ.Entomol.* 85: 878-887.
  - ; Habitat: T; Effect Codes: MOR
- 215. Chambers, Howard W. and Casida, John E. (1969). Protective activity of 1,3-disubstituted 2- and 6-pyridones against selected neurotoxic agents. *Toxicology and Applied Pharmacology* 14: 249-258.
  Rejection Code: MIXTURE.
- 216. Chambers, J. E. and Dorough, G. D. (1994). Toxicologic Problems Associated with Pesticide Mixtures and Pesticide Impurities. *In: R.S.H.Yang (Ed.), Toxicology of Chemical Mixtures: Case Studies, Mechanisms, and Novel Approaches, Acad.Press, San Diego, CA* 135-155.

  Rejection Code: MIXTURE/REVIEW.
- 217. CHAMBERS JE, CHEN WL, DETTBARN, W., EHRICH, M., ELDEFRAWI AT, GAYLOR DW, HAMERNIK, K., HODGSON, E., KARCZMAR AG, PADILLA, S., POPE CN, RICHARDSON RJ, SAUNDERS DR, SHEETS LP, SULTATOS LG, and WALLACE KB (1998). Common mechanism of toxicity: A case study of organophosphorus pesticides. AU MILESON BE. *TOXICOLOGICAL SCIENCES*; 41 8-20.

  Rejection Code: NO TOX DATA.
- 218. Chapman, P. A. (1985). The Resistance to Eighteen Toxicants of a Strain of Musca domestica L. Collected from a Farm in England. *Pestic.Sci.* 16: 271-276.
  - ; Habitat: T; Effect Codes: MOR
- 219. Chapman, P. A. (1985). The resistance to eighteen toxicants of a strain of Musca domestica L. collected from a farm in England. *Pesticide Science [PESTIC. SCI.]. Vol. 16, no. 3, pp. 271-276. 1985.* Rejection Code: SURVEY.
- 220. Chapman, Sharon K. and Leibman, Kenneth C. (1971). The effects of chlordane, DDT, and 3-methylcholanthrene upon the metabolism and toxicity of diethyl-4-nitrophenyl phosphorothionate (Parathion). *Toxicology and Applied Pharmacology* 18: 977-987.
  <u>Rejection Code</u>: NO COC.
- 221. CHARIZOPOULOS, E. and PAPADOPOULOU-MOURKIDOU, E. (1999). Occurrence of pesticides in rain of the Axios River Basin, Greece. *ENVIRONMENTAL SCIENCE & TECHNOLOGY; 33* 2363-2368.

- Rejection Code: SURVEY.
- 222. Chatterjee, K. (1975). Toxicity of Diazinon to Fish and Fish Food Organisms. *Indian Sci. Congr. Assoc. Proc.* 62: 166-167.
  - ; Habitat: A; Effect Codes: MOR
- 223. Chatterjee, K. and Konar, S. K. (1984). Effects of the Pesticide Diazinon at Various pH and Turbidity on Fish and Aquatic Ecosystem. *Aquat.Sci.Fish.Abstr.14(11, Pt.1):263 / Environ.Ecol.* 2: 49-53.
  - ; Habitat: A; Effect Codes: GRO
- 224. Chattopadhyay, Amitabha (1990). Chemistry and biology of N-(7-nitrobenz-2-oxa-1,3-diazol-4-yl)-labeled lipids: fluorescent probes of biological and model membranes. *Chemistry and Physics of Lipids* 53: 1-15.
  Rejection Code: METHODS.
- 225. Chattopadhyay, Amitabha and London, Erwin (1988). Spectroscopic and ionization properties of N-(7-nitrobenz-2-oxa-1,3-diazol-4-yl)-labeled lipids in model membranes. *Biochimica et Biophysica Acta (BBA) Biomembranes* 938: 24-34.

  Rejection Code: METHODS.
- 226. Chen, Chien-An, Yeh, Ren-Hwa, Yan, Xiongwei, and Lawrence, David S. (2004). Biosensors of protein kinase action: from in vitro assays to living cells: IPK'2003. Inhibitors of protein kinases and Workshop: Phosphoryl-transfer mechanisms. *Biochimica et Biophysica Acta (BBA) Proteins & Proteomics* 1697: 39-51.
  Rejection Code: METHODS.
- 227. Chen, D., Rolston, D. E., and Yamaguchi, T. (2000). Calculating partition coefficients of organic vapors in unsaturated soil and clays. *Soil Science*, 165 (3) pp. 217-225, 2000. Rejection Code: METHODS.
- 228. Chen, P. S., Lin, Y. N., and Chung, C. L. (1971). Laboratory Studies on the Susceptibility of Mosquito-Eating Fish, Lebistes reticulatus and the Larvae of Culex pipiens fatigans to Insecticides. *Tai-Wan I.Hsueh Hui Tsa Chih* 70: 28-35.
  - ; Habitat: A; Effect Codes: MOR
- 229. Chen, W., Poon, K. F., and Lam, M. H. W. (1998). The application of solid phase microextraction in the analysis of organophosphorus pesticides in a food plant. *Environmental Science and Technology*, 32 (23) pp. 3816-3820, 1998.

  Rejection Code: METHODS.
- 230. Chen, Youcun, Liu, Guangxiang, Song, You, Xu, Heng, Ren, Xiaoming, and Meng, Qingjin (2005).

  Molecular spin ladders self-assembly from [Ni(dmit)2]- building blocks: Syntheses, structures and magnetic properties: Proceedings of the 9th International Conference on Molecule-based Magnets (ICMM 2004). *Polyhedron* 24: 2269-2273.

  Rejection Code: METHODS.
- 231. Chennamaneni, Srinivas Rao, Vobalaboina, Venkateswarlu, and Garlapati, Achaiah (2005). Quaternary salts of 4,3' and 4,4' bis-pyridinium monooximes: Synthesis and biological activity. *Bioorganic & Medicinal Chemistry Letters* 15: 3076-3080.

  Rejection Code: METHODS.
- 232. Chernomordik, Leonid V., Sokolov, Alexander V., and Budker, Vladimir G. (1990). Electrostimulated

uptake of DNA by liposomes. *Biochimica et Biophysica Acta (BBA) - Biomembranes* 1024: 179-183.

Rejection Code: METHODS.

- 233. CHERNYAK SM, RICE CP, and MCCONNELL LL (1996). Evidence of currently-used pesticides in air, ice, fog, seawater and surface microlayer in the Bering and Chukchi seas. MARINE POLLUTION BULLETIN; 32 410-419.
  Rejection Code: NO TOX DATA.
- 234. Chiu, Y. C. and O'Brien, R. D. (1971). Separate binding sites on acetylcholinesterase for indophenyl and other esters. *Pesticide Biochemistry and Physiology* 1: 434-444. Rejection Code: NO TOX DATA.
- 235. Cho, J. H., Jeong, S. H., and Yun, H. I. (2003). Changes of Urinary and Blood Porphyrin Profiles by Exposure to PCBs, Lead or Diazinon in Rats. *Vet.Hum.Toxicol.* 45: 193-198.
  - ; Habitat: T; Effect Codes: BCM
- 236. Chow, Edward, Seiber, James N., and Wilson, Barry W. (1986). Isofenphos and an in vitro activation assay for delayed neuropathic potential. *Toxicology and Applied Pharmacology* 83: 178-183. Rejection Code: IN VITRO.
- 237. Christensen, G. M. and Tucker, J. H. (1976). Effects of Selected Water Toxicants on the In Vitro Activity of Fish Carbonic Anhydrase. *Chem.Biol.Interact.* 13: 181-192. Rejection Code: IN VITRO.
- 238. CHUNG, K., STARRETT, S., CHUNG, Y., and RO KS (1998). PESTICIDES AND HERBICIDES. WATER ENVIRONMENT RESEARCH; 70 693-697.

  Rejection Code: REVIEW, FATE.
- 239. Ci, Weimin, Li, Wenyu, Ke, Ya, Qian, Zhong-Ming, and Shen, Xun (2003). Intracellular Ca2+ regulates the cellular iron uptake in K562 cells. *Cell Calcium* 33: 257-266.

  <u>Rejection Code</u>: IN VITRO.
- 240. Ciba-Geigy, Corp (1976). Reports of Investigations Made with Respect to Fish and Wildlife Requirements for Diazinon and its Formulated Products. *U.S.EPA-OPP Registration Standard*.
  - ; Habitat: A; Effect Codes: MOR
- 241. Civen, M. and Brown, C. B. (1974). The Effect of Organophosphate Insecticides on Adrenal Corticosterone Formation . *Pestic.Biochem.Physiol.* 4: 254-259.
  - ; Habitat: T; Effect Codes: BCM
- 242. Civen, Morton, Lifrak, Eric, and Brown, Charlesta B. (1977). Studies on the mechanism of inhibition of adrenal steroidogenesis by organophosphate and carbamate compounds. *Pesticide Biochemistry and Physiology* 7: 169-182.
  <u>Rejection Code</u>: IN VITRO.
- 243. Clack, D. W. and Smith, W. (1974). A Tanabe-Sugano type diagran from potential energy curves for the hexafluoroferrate (III) ion, FeF63-. *Inorganic and Nuclear Chemistry Letters* 10: 601-604. Rejection Code: METHODS.
- 244. Clark, J. R., DeVault, D., Bowden, R. J., and Weishaar, J. A. (1984). Contaminant Analysis of Fillets from Great Lakes Coho Salmon, 1980. *J.Gt.Lakes Res.* 10: 38-47.

- Rejection Code: NO CONC/SURVEY.
- 245. Clarke, Harvey, and Humphreys (1981). Organic Compounds, 2. Pesticides; In: Clarke et Al (Eds) Veterinary Toxicology. *Bailliere Tindal, London* 129-187.
  Rejection Code: REVIEW.
- 246. CLARKE ED, GREENHOW DT, and ADAMS, D. (1998). Metabolism-related assays and their application to agrochemical research: Reactivity of pesticides with glutathione and glutathione transferases. PESTICIDE SCIENCE; 54 385-393. Rejection Code: METHODS.
- 247. Clegg, T. J. and Koevenig, J. L. (1974). The Effect of Four Chlorinated Hydrocarbon Pesticides and One Organophosphate Pesticide on ATP Levels in Three Species of Photosynthesizing Freshwater Algae. *Bot.Gaz.* 135: 368-372.
  - ; Habitat: A; Effect Codes: BCM,POP
- 248. Clemens, H. P. and Sneed, K. E. (1959). Lethal Doses of Several Commercial Chemicals for Fingerling Channel Catfish. *U.S.Fish and Wildl., Spec.Serv.Sci.Rep.- Fish.No.316, U.S.D.I., Washington, D.C.* 10 p.
  - ; Habitat: A; Effect Codes: MOR
- 249. Cleophax, J., Olesker, A., Rolland, A., Gero, S. D., and Forchioni, A. (1977). Synthese de derives de la purpurosamine C,composant de la gentamicine C1a. *Tetrahedron* 33: 1303-1308. Rejection Code: METHODS.
- 250. Clinging, R., Dean, F. M., and Mitchell, G. H. (1974). 1,4-dioxa-2,3-benzofulvalene from thermolysis of 1,2-benzoquinone 2-diazide. *Tetrahedron* 30: 4065-4067. Rejection Code: METHODS.
- 251. Cobb, G. P., Mellott, R., Brewer, L. W., Bens, C. M., and Kendall, R. J. (2000). Diazinon Dissipation from Vegetation, Occurrence in Earthworms, and Presence in Avian Gastrointestinal Tracts Collected from Apple Orchards Following D-Z-N 50W Application. *Environ.Toxicol.Chem.* 19: 1360-1367.
  - ; Habitat: T; Effect Codes: ACC
- 252. Cobb, G. P., Mellott, R., Brewer, L. W., Bens, C. M., and Kendall, R. J. (2000). Diazinon dissipation from vegetation, occurrence in earthworms, and presence in avian gastrointestinal tracts collected from apple orchards following D-Z-N registered 50W application. *Environmental Toxicology and Chemistry [Environ. Toxicol. Chem.]. Vol. 19, no. 5, pp. 1360-1367. May 2000.*Rejection Code: FATE.
- 253. COCHRAN DG (1989). MONITORING FOR INSECTICIDE RESISTANCE IN FIELD-COLLECTED STRAINS OF THE GERMAN COCKROACH DICTYOPTERA BLATTELLIDAE. *J ECON ENTOMOL*; 82 336-341.

  Rejection Code: SURVEY.
- 254. COHEN ML and STEINMETZ WD (1986). Foliar washoff of pesticides by rainfall. *ENVIRON SCI TECHNOL*; 20 521-523.

  Rejection Code: FATE.
- 255. COHEN, S., SVRJCEK, A., DURBOROW, T., and BARNES NL (1999). Water quality impacts by golf courses. *JOURNAL OF ENVIRONMENTAL QUALITY*; 28 798-809.
  <u>Rejection Code</u>: REVIEW, SURVEY.

- 256. COLES GC and STAFFORD KA (1999). The in vitro response of sheep scab mites to pyrethroid insecticides. VETERINARY PARASITOLOGY; 83 327-330.
  Rejection Code: IN VITRO.
- 257. Collins, A. G., Nichol, A. W., and Elsbury, S. (1982). Porphyria cutanea tarda and agricultural pesticides. *AUST. J. DERMATOL. Vol. 23, no. 2, pp. 70-75. 1982*. Rejection Code: INCIDENT, HUMAN HEALTH.
- 258. Collins, David, Maxfield, Frederick, and Huang, Leaf (1989). Immunoliposomes with different acid sensitivities as probes for the cellular endocytic pathway. *Biochimica et Biophysica Acta (BBA) Biomembranes* 987: 47-55.

  Rejection Code: METHODS.
- Collins, W. J. (1976). German Cockroach Resistance: Propoxur Selection Induces the Same Resistance Spectrum as Diazinon Selection. *Pestic.Sci.* 7: 171-174.
   <u>Rejection Code</u>: NO DURATION.
- Connolly, J. P. (1985). Predicting Single-Species Toxicity in Natural Water Systems. *Environ.Toxicol.Chem.* 4: 573-582.
   Rejection Code: REFS CHECKED/REVIEW.
- 261. Cope, O. B. (1966). Contamination of the Freshwater Ecosystem by Pesticides. *J.Appl.Ecol.* 3: 33-44 (Publ in Part As 6797).
  - ; Habitat: A; Effect Codes: MOR, ACC, REP
- 262. Cope, O. B. (1965). Sport Fishery Investigations. *In: Fish and Wildl.Serv.Cicr.226, Effects of Pesticides on Fish and Wildlife 1964 Research Findings of the Fish and Wildlife Service, Washington, D.C.* 51-63 (Publ in Part As 6797).
  - ; Habitat: A; Effect Codes: MOR,BCM
- 263. Copeland, C. A., Raebel, M. A., and Wagner, S. L. (1989). Pesticide residue in lanolin. *Journal of the American Medical Association [J. AM. MED. ASSOC.]. Vol. 261, no. 2, 242 p. 1989.*Rejection Code: METHODS.
- Corbett, J. R., Wright, K., and Baillie, A. C. (1984). Insecticides Inhibiting Acetylcholinesterase. *In: The Biochemical Mode of Action of Pesticides, Second Edition, Acad. Press, London* 99-140.
   Rejection Code: REVIEW.
- 265. CORDLE MK (1988). USDA REGULATION OF RESIDUES IN MEAT AND POULTRY PRODUCTS. J ANIM SCI; 66 413-433. Rejection Code: NO TOX DATA.
- 266. Costa, L. G., Richter, R. J., Li, W. F., Cole, T., Guizzetti, M., and Furlong, C. E. (2003). Paraoxonase (PON 1) as a biomarker of susceptibility for organophosphate toxicity. *Biomarkers [Biomarkers]. Vol. 8, no. 1, pp. 1-12. Jan 2003*.

  Rejection Code: NO TOX DATA.
- 267. COSTA LG (1998). Biochemical and molecular neurotoxicology: Relevance to biomarker development, neurotoxicity testing and risk assessment. TOXICOLOGY LETTERS (SHANNON); 102-103 (0). 1998. 417-421.
  Rejection Code: REVIEW.
- 268. Costa, Lucio G., Shao, McNama, Basker, Kurt, and Murphy, Sheldon D. (1984). Chronic administration of

- an organophosphorus insecticide to rats alters cholinergic muscarinic receptors in the pancreas. *Chemico-Biological Interactions* 48: 261-269.

  Rejection Code: NO COC.
- 269. Coste, Virginie, Puff, Nicolas, Lockau, Daniel, Quinn, Peter J., and Angelova, Miglena I. (Raft-like domain formation in large unilamellar vesicles probed by the fluorescent phospholipid analogue, C12NBD-PC. *Biochimica et Biophysica Acta (BBA) Biomembranes* In Press, Corrected Proof. Rejection Code: METHODS.
- 270. Coupe, R. H., Manning, M. A., Foreman, W. T., Goolsby, D. A., and Majewski, M. S. (2000). Occurrence of pesticides in rain and air in urban and agricultural areas of Mississippi, April-September 1995. The Science of The Total Environment 248: 227-240.
  Rejection Code: SURVEY.
- 271. Cowley, Alan H., Gabbai, Francois P., Olbrich, Falk, Corbelin, Siegfried, and Lagow, Richard J. (1995). Surprising stability of a monomeric bis azide of gallium(III). *Journal of Organometallic Chemistry* 487: C5-C7.

  Rejection Code: METHODS.
- Cox, C. (2000). Diazinon: Ecological Effects and Environmental Contamination. *J.Pestic.Reform* 20: 14-20.
   Rejection Code: REVIEW.
- 273. Cox, L., Hermosin, M. C., Celis, R., and Cornejo, J. (1997). Sorption of two polar herbicides in soils and soil clays suspensions. *Water Research* 31: 1309-1316.

  Rejection Code: FATE.
- 274. Crawford, C. G. (2001). Factors affecting pesticide occurrence and transport in a large midwestern river basin. *Journal of the American Water Resources Association [J. Am. Water Resour. Assoc.]. Vol.* 37, no. 1, pp. 1-16. Feb 2001. Rejection Code: FATE.
- 275. Cripe, G. M. (1994). Comparative Acute Toxicities of Several Pesticides and Metals to Mysidopsis bahia and Postlarval Penaeus duorarum. *Environ.Toxicol.Chem.* 13: 1867-1872.
  - ; Habitat: A; Effect Codes: MOR
- 276. CROSBY BL, BYFORD RL, and KINZER HG (1991). Insecticide resistance in the horn fly, Haematobia irritans (L.), in New Mexico: Survey and control. *SOUTHWEST ENTOMOL*; *16* 301-310. Rejection Code: SURVEY.
- 277. CROWLEY DE, ALVEY, S., and GILBERT ES (1997). RHIZOSPHERE ECOLOGY OF XENOBIOTIC-DEGRADING MICROORGANISMS. KRUGER, E. L., T. A. ANDERSON AND J. R. COATS (ED.). ACS SYMPOSIUM SERIES, 664. PHYTOREMEDIATION OF SOIL AND WATER CONTAMINANTS; SYMPOSIUM HELD DURING THE 212TH NATIONAL MEETING OF THE AMERICAN CHEMICAL SOCIETY, ORLANDO, FLORIDA, USA, AUGUST 25-29, 1996. X+318P. AMERICAN CHEMICAL SOCIETY: WASHINGTON, DC, USA. ISBN 0-8412-3503-1.; 664 (0). 1997. 20-36.

  Rejection Code: NO TOX DATA.
- 278. Crystal, M. M. and Demilo, A. B. (1988). Susceptibility of Laboratory-Reared Northern Fowl Mites, Ornithonyssus sylviarum (Acari: Macronyssidae), to Selected Acaricides. *Exp.Appl.Acarol.* 4: 353-358.
  - ; Habitat: T; Effect Codes: MOR

- 279. Cunha Bastos, V. L. F., Cunha Bastos, J., Lima, J. S., and Castro Faria, M. V. (1991). Brain acetylcholinesterase as an in vitro detector of organophosphorus and carbamate insecticides in water. *Water Research* 25: 835-840.

  <u>Rejection Code</u>: IN VITRO.
- 280. Cunico, Robert F. and Kuan, Chia P. (1995). A preparation of N,N-bis(trimethylsilyl)allenamines. *Journal of Organometallic Chemistry* 487: 89-93.

  Rejection Code: METHODS.
- 281. Curtis, C., Lima, A., Lozano, S. J., and Veith, G. D. (1982). Evaluation of a Bacterial Bioluminescence Bioassay as a Method for Predicting Acute Toxicity of Organic Chemicals to Fish. *In: J.G.Pearson, R.B.Foster, and W.E.Bishop (Eds.), Aquatic Toxiciology and Hazard Assessment, 5th Conf., ASTM STP 766, Philadelphia, PA* 170-178.

  Rejection Code: BACTERIA.
- 282. Curtis, R. J. (1985). Amitraz in the control of non-ixodide ectoparasites of livestock. *Veterinary Parasitology* 18: 251-264.

  <u>Rejection Code</u>: NO COC.
- 283. D'Cruz, O. J. and Uckun, F. M. (2000). Vanadocene-Mediated in Vivo Male Germ Cell Apoptosis.

  \*Toxicology and Applied Pharmacology [Toxicol. Appl. Pharmacol.]. Vol. 166, no. 3, pp. 186-195.

  1 Aug 2000.

  Rejection Code: IN VITRO.
- Dahm, P. A., Kopecky, B. E., and Walker, C. B. (1962). Activation of organophosphorus insecticides by rat liver microsomes. *Toxicology and Applied Pharmacology* 4: 683-696.
   <u>Rejection Code</u>: IN VITRO.
- 285. DAN PEST INFEST LAB (1990). DANISH PEST INFESTATION LABORATORY ANNUAL REPORT.

  \*\*DAN PEST INFEST LAB ANNU REP; 1989 1-110.\*\*

  \*\*Rejection Code: REVIEW.\*\*
- 286. DANNENBERG, A. and PEHKONEN SO (1998). Investigation of the heterogeneously catalyzed hydrolysis of organophosphorus pesticides. *JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY*; 46 325-334.

  Rejection Code: FATE.
- 287. DANNENBERG, A. and PEHKONEN SO (1997). INVESTIGATION OF THE HOMOGENEOUS AND HETEROGENEOUS HYDROLYSIS RATES AND MECHANISMS OF SELECTED ORGANOPHOSPHORUS PESTICIDES. 213TH NATIONAL MEETING OF THE AMERICAN CHEMICAL SOCIETY, SAN FRANCISCO, CALIFORNIA, USA, APRIL 13-17, 1997. ABSTRACTS OF PAPERS AMERICAN CHEMICAL SOCIETY; 213 ENVR 235. Rejection Code: FATE.
- 288. DAUTERMAN WC (1994). ADAPTATION TO TOXICANTS. HODGSON, E. AND P. E. LEVI (ED.). INTRODUCTION TO BIOCHEMICAL TOXICOLOGY, SECOND EDITION. XIX+588P. APPLETON AND LANGE: EAST NORWALK, CONNECTICUT, USA. ISBN 0-8385-4332-4.; 0 (0). 1994. 569-581. Rejection Code: METABOLISM.
- 289. Davies, Donald B. and Holub, Bruce J. (1983). Comparative effects of organophosphorus insecticides on the activities of acetylcholinesterase, diacylglycerol kinase, and phosphatidylinositol phosphodiesterase in rat brain microsomes. *Pesticide Biochemistry and Physiology* 20: 92-99. Rejection Code: IN VITRO.

- 290. de Almeida, Rodrigo F. M., Loura, Luis M. S., Fedorov, Alexander, and Prieto, Manuel (2005). Lipid Rafts have Different Sizes Depending on Membrane Composition: A Time-resolved Fluorescence Resonance Energy Transfer Study. *Journal of Molecular Biology* 346: 1109-1120.

  <u>Rejection Code</u>: METHODS.
- 291. de la Mora, Marco A., Cuevas, Erick, Muchowski, Joseph M., and Cruz-Almanza, Raymundo (2001).

  Synthesis of tricyclic-2-aminoindoles by intramolecular 1,3-dipolar cycloaddition of 1-[omega]-azidoalkylindoles. *Tetrahedron Letters* 42: 5351-5353.

  Rejection Code: METHODS.
- 292. De Vlaming, V., Connor, V., DeGiorgio, C., Bailey, H., Deanovic, L., and Hinton, D. (2000). Application of Whole Effluent Toxicity Test Procedures to Ambient Water Quality Assessment. *Environ.Toxicol.Chem.* 19: 42-62.

  Rejection Code: EFFLUENT.
- 293. De Vlaming, V., Connor, V., DiGiorgio, C., Bailey, H. C., Deanovic, L. A., and Hinton, D. E. (2000). Application of whole effluent toxicity test procedures to ambient water quality assessment. Environmental Toxicology and Chemistry [Environ. Toxicol. Chem.]. Vol. 19, no. 1, pp. 42-62. Jan 2000. Rejection Code: EFFLUENT.
- 294. de Vlaming, V., DiGiorgio, C., Fong, S., Deanovic, L. A., de la Paz Carpio-Obeso, M., Miller, J. L., Miller, M. J., and Richard, N. J. (2004). Irrigation runoff insecticide pollution of rivers in the Imperial Valley, California (USA). *Environmental Pollution* 132: 213-229.

  Rejection Code: SURVEY, MIXTURE.
- 295. Deanin, Grace G., Martinez, A. Marina, Pfeiffer, Janet R., Gardner, Mary E., and Oliver, Janet M. (1991). Tyrosine kinase-dependent phosphatidylinositol turnover and functional responses in the Fc[var epsilon]R1 signalling pathway. *Biochemical and Biophysical Research Communications* 179: 551-557. Rejection Code: IN VITRO.
- 296. Deanovic, L., Bailey, H., Shed, T., Hinton, D., Teyes, E., Larsen, K., Cortright, K., Kimball, T., Lampara, L., and Nielsen, H. (1996). Sacramento-San Juaquin delta Bioassay Monitoring Report: 1993-1994. *Staff Rep., Central Valley Reg.Water Qual.Control Bd., Sacramento, CA*.

  Rejection Code: EFFLUENT.
- 297. Deanovic, L., Cortright, K., Larson, K., Reyes, E., Bailey, H., and Hilton, D. (1997). Sacramento-San Joaquin Delta Bioassay Monitoring Report: 1994-95. *Staff Rep., Central Valley Reg. Water Qual. Control Bd., Sacramento, CA*.

  Rejection Code: EFFLUENT.
- 298. DEJONCKHEERE, W., STEURBAUT, W., DRIEGHE, S., VERSTRAETEN, R., and BRAECKMAN, H. (1996). Pesticide residue concentrations in the Belgian total diet, 1991-1993. *JOURNAL OF AOAC INTERNATIONAL*; 79 520-528.

  Rejection Code: HUMAN HEALTH.
- 299. Deleers, Michel, Servais, Jean-Paul, and Wulfert, Ernst (1985). Micromolar concentrations of Al3+ induce phase separation, aggregation and dye release in phosphatidylserine-containing lipid vesicles. *Biochimica et Biophysica Acta (BBA) - Biomembranes* 813: 195-200.

  Rejection Code: METHODS.
- 300. Deleers, Michel, Servais, Jean-Paul, and Wulfert, Ernst (1986). Neurotoxic cations induce membrane rigidification and membrane fusion at micromolar concentrations. *Biochimica et Biophysica Acta* (*BBA*) *Biomembranes* 855: 271-276.

- Rejection Code: METHODS.
- 301. Delhom, N., Balanant, Y., Ader, J. C., and Lattes, A. (1996). High Performance Liquid Chromatographic Determination of Diazinon in Polymeric Matrix. *J.Liq.Chrom.& Rel.Technol.* 19: 1735-1743. Rejection Code: NO SPECIES/NO TOX DATA.
- 302. DeLorenzo, M. E., Scott, G. I., and Ross, P. E. (2001). Toxicity of Pesticides to Aquatic Microorganisms: A Review. *Environ.Toxicol.Chem.* 20: 84-98.

  Rejection Code: REVIEW.
- 303. Deneer, J. W., Budde, B. J., and Weijers, A. (1999). Variations in the Lethal Body Burdens of Organophosphorus Compounds in the Guppy. *Chemosphere* 38: 1671-1683.
  - ; Habitat: A; Effect Codes: ACC
- Dennis, E. B. and Edwards, C. A. (1963). Phytotoxicity of Insecticides and Acaricides. II. Flowers and Ornamentals. *Plant Pathol.* 12: 27-36.
  - ; Habitat: T; Effect Codes: PHY
- 305. Dennis, W. H. J., Meier, E. P., Randall, W. F., Rosencrance, A. B., and Rosenblatt, D. H. (1979). Degradation of Diazinon by Sodium Hypochlorite. Chemistry and Aquatic Toxicity. *Environ.Sci.Technol.* 13: 594-598.
  - ; Habitat: A; Effect Codes: MOR, BEH
- 306. Dennis, W. H. J., Meier, E. P., Rosencrance, A. B., Randall, W. F., Reagan, M. T., and Rosenblatt, D. H. (1979). Chemical Degradation of Military Standard Formulations of Organophosphorus and Carbamate Pesticides. II. Degradation of Diazinon by Sodium. *U.S.Army Med.Bioeng.Res.Dev.Lab.*, *Tech.Rep.No.7904*, *Fort Detrick*, *MD* 40 p.(U.S.NTIS AD-AO81098/6).
  - ; Habitat: A; Effect Codes: MOR, PHY
- 307. Deo, P. G., Hasan, S. B., and Majumder, S. K. (1988). Toxicity and Suitability of Some Insecticides for Household Use. *Int.Pest Control* 30: 118-121,129.
  - ; Habitat: T; Effect Codes: MOR
- 308. Devillers, J., Meunier, T., and Chambon, P. (1985). Advantage of the Dosage-Action-Time Relation in Ecotoxicology for the Test of the Various Chemical Species of Toxics (Interet de la Relation Dose-Effet-Temps en Ecotoxicologie pour la Determination des Differentes Classes Chimiques de Toxiques). *Tech.Sci.Munic.* 80: 329-334 (FRE) (ENG ABS).
  - ; Habitat: A; Effect Codes: MOR,PHY
- 309. DeWalle, D. R., Tepp, J. S., Swistock, B. R., Sharpe, W. E., and Edwards, P. J. (1999). Tree-Ring Cation Response to Experimental Watershed Acidification in West Virginia and Maine. *Journal of Environmental Quality [J. Environ. Qual.]. Vol. 28, no. 1, pp. 299-308. Jan-Feb 1999.* Rejection Code: METHODS.
- 310. Doggett, S. M. and Rhodes, R. G. (1991). Effects of Diazinon Formulation on Unialgal Growth Rates and Phytoplankton Diversity. *Bull.Environ.Contam.Toxicol.* 47: 36-42.
  - ; Habitat: A; Effect Codes: POP

- 311. Domagalski, J. (1996). Pesticides and pesticide degradation products in stormwater runoff: Sacramento River Basin, California. *Water Resources Bulletin. Vol. 32, no. 5, pp. 953-964. 1996.*Rejection Code: FATE.
- 312. DOMAGALSKI, J. (1997). Results of a prototype surface water network design for pesticides developed for the San Joaquin River Basin, California. *JOURNAL OF HYDROLOGY (AMSTERDAM)*; 192 (1-4). 1997. 33-50.

  Rejection Code: NO TOX DATA.
- 313. Domagalski, J. L., Dubrovsky, N. M., and Kratzer, C. R. (1997). Organic chemicals in the environment: Pesticides in the San Joaquin River, California: Inputs from dormant sprayed orchards. *Journal of Environmental Quality*, 26 (2) pp. 454-465, 1997.

  Rejection Code: FATE.
- 314. Domagalski, J. L., Dubrovsky, N. M., and Kratzer, C. R. (1997). Pesticides in San Joaquin River, California: Inputs from Dormant Sprayed Orchards. *J.Environ.Qual.* 26: 454-465. Rejection Code: EFFLUENT.
- 315. Domagalski, J. L., Dubrovsky, N. M., and Kratzer, C. R. (1997). Pesticides in the San Joaquin River, California: Inputs from dormant sprayed orchards. *Journal of Environmental Quality [J. ENVIRON. QUAL.]. Vol. 26, no. 2, pp. 454-465. Apr 1997.*Rejection Code: FATE.
- 316. DOMAGALSKI JL, DUBROVSKY NM, and KRATZER CR (1997). Pesticides in the San Joaquin River, California: Inputs from the dormant sprayed orchards. *JOURNAL OF ENVIRONMENTAL QUALITY*; 26 454-465.

  Rejection Code: FATE.
- 317. DOMAGALSKI JL and KUIVILA KM (1993). Distributions of pesticides and organic contaminants between water and suspended sediment, San Francisco Bay, California. *ESTUARIES*; 16 416-426. Rejection Code: FATE.
- 318. Domagalski, Joseph L. and Dubrovsky, Neil M. (1992). Pesticide residues in ground water of the San Joaquin Valley, California. *Journal of Hydrology* 130: 299-338. Rejection Code: FATE.
- 319. DOWNING GM and MORCOMBE PW (1996). ZINC SULPHATE DIAZINON AND DAM WATER AND REPLY. *AUSTRALIAN VETERINARY JOURNAL*; 73 159. Rejection Code: NO TOX DATA.
- 320. DREISTADT SH, CLARK JK, and FLINT ML (1994). PESTS OF LANDSCAPE TREES AND SHRUBS AN INTEGRATED PEST MANAGEMENT GUIDE. DREISTADT, S. H., J. K. CLARK AND M. L. FLINT. PESTS OF LANDSCAPE TREES AND SHRUBS: AN INTEGRATED PEST MANAGEMENT GUIDE. VI+327P. UNIVERSITY OF CALIFORNIA PRESS: BERKELEY, CALIFORNIA, USA. ISBN 1-879906-18-X.; 0 VI+327P.

  Rejection Code: REVIEW.
- 321. Dubois, K. P. (1961). Potentiation of the Toxicity of Organophosphorus Compounds. *Adv.Pest Control Res.* 4: 117-151.

  Rejection Code: REFS CHECKED/REVIEW.
- 322. DUBROVSKY NM, KRATZER CR, PANSHIN SY, GRONBERG JM, and KUIVILA KM (1998).

  PESTICIDE TRANSPORT IN THE SAN JOAQUIN RIVER WATERSHED. 215TH

  AMERICAN CHEMICAL SOCIETY NATIONAL MEETING, DALLAS, TEXAS, USA, MARCH 29APRIL 2, 1998. ABSTRACTS OF PAPERS AMERICAN CHEMICAL SOCIETY; 215 AGRO 42.

- Rejection Code: FATE.
- 323. DUKE JA (1992). BITING THE BIOCIDE BULLET. JAMES, L. F., ET AL. (ED.). POISONOUS PLANTS; THIRD INTERNATIONAL SYMPOSIUM, LOGAN, UTAH, USA, 1988. XV+661P. IOWA STATE UNIVERSITY PRESS: AMES, IOWA, USA. ILLUS. MAPS. ISBN 0-8138-1241-0.; 0 (0). 1992. 474-478.

  Rejection Code: NO TOX DATA.
- 324. Duperray, Florence, Jezequel, Didier, Ghazi, Alexandre, Letellier, Lucienne, and Shechter, Emanuel (1992). Excretion of glutamate from Corynebacterium glutamicum triggered by amine surfactants. Biochimica et Biophysica Acta (BBA) - Biomembranes 1103: 250-258.

  Rejection Code: METHODS.
- 325. DURHAM JJ, OGATA, J., NAKAJIMA, S., HAGIWARA, Y., and SHIBAMOTO, T. (1999). Degradation of organophosphorus pesticides in aqueous extracts of young green barley leaves (Hordeum vulgare L). *JOURNAL OF THE SCIENCE OF FOOD AND AGRICULTURE;* 79 1311-1314. Rejection Code: FATE.
- 326. Dusbabek, F., Rupes, V., Simek, P., and Zahradnickova, H. (1997). Enhancement of Permethrin Efficacy in Acaricide-Attractant Mixtures for Control of the Fowl Tick Argas persicus (Acari: Argasidae). *Exp.Appl.Acarol.* 21: 293-305.
  - ; Habitat: T; Effect Codes: MOR
- 327. Dutt, N. and Guha, R. S. (1988). Toxicity of Few Organophosphorus Insecticides to Fingerlings of Bound Water Fishes, Cyprinus carpio (Linn.) and Tilapia mossambica Peters. *Indian J.Entomol.* 50: 403-421.
  - ; Habitat: A; Effect Codes: MOR
- 328. Dutta, H. M., Munshi, J. S. D., Ray, P. K., Singh, N. K., and Motz, L. (1994). Normal and Diazinon Exposed Gill Structure Changes in Bluegills, Lepomis macrochirus: A Scanning Electron Microscopic Study. *J.Morphol.* 220: 343-344.

  Rejection Code: ABSTRACT.
- 329. Dutta, H. M., Richmonds, C. R., and Zeno, T. (1993). Effects of Diazinon on the Gills of Bluegill Sunfish Lepomis macrochirus. *J.Environ.Pathol.Toxicol.Oncol.* 12: 219-227.
  - ; Habitat: A; Effect Codes: CEL
- 330. Dutta, H. M., Zeno, T., and Richmonds, C. R. (1992). Toxic Action of Diazinon on the Gills of Bluegill Sunfish, Lepomis macrochirus. *Ohio J.Sci.* 92: 9 (ABS).
  - ; Habitat: A; Effect Codes: CEL
- 331. Dwyer, F. J., Hardesty, D. K., Henke, C. E., Ingersoll, C. G., Whites, D. W., Mount, D. R., and Bridges, C. M. (1999). Assessing Contaminant Sensitivity of Endangered and Threatened Species: Effluent Toxicity Tests. *EPA 600/R-99/099, U.S.EPA, Washington, D.C.* 9 p.
  - ; Habitat: A; Effect Codes: GRO,REP,MOR
- 332. Dyer, S. D., Belanger, S. E., and Carr, G. J. (1997). An Initial Evaluation of the Use of Euro/North American Fish Species for Tropical Effects Assessments. *Chemosphere* 35: 2767-2781. Rejection Code: MODELING/NO TOX DATA.

- 333. DYER SD, DICKSON KL, and ZIMMERMAN EG (1991). STRESS PROTEINS POTENTIAL INDICATORS OF GENERAL AND TOXICANT SPECIFIC STRESS. 201ST ACS NATIONAL MEETING OF THE AMERICAN CHEMICAL SOCIETY, ATLANTA, GEORGIA, USA, APRIL 14-19, 1991. ABSTR PAP AM CHEM SOC; 201 AGRO 76.

  Rejection Code: ABSTRACT.
- 334. Dynamac Corporation (1988). Results of the Locust Pesticide Testing Trials in Sudan. Technical Report. USAID Contract No.AFR-0517-C-00-7035-00,Dynamac Corp., Rockville, MD 50 p.
  - ; Habitat: T; Effect Codes: MOR, ACC, POP
- 335. Earl, F. L., Melveger, B. E., Reinwall, J. E., Bierbower, G. W., and Curtis, J. M. (1971). Diazinon Toxicity-Comparative Studies in Dogs and Miniature Swine. *Toxicol.Appl.Pharmacol.* 18: 285-295.
  - ; Habitat: T; Effect Codes: MOR, BCM, PHY
- 336. Eastman, Simon J., Wilschut, Jan, Cullis, Pieter R., and Hope, Michael J. (1989). Intervesicular exchange of lipids with weak acid and weak base characteristics: influence of transmembrane pH gradients. Biochimica et Biophysica Acta (BBA) - Biomembranes 981: 178-184.

  Rejection Code: METHODS.
- 337. Ebbert, J. C., Embrey, S. S., Black, R. W., Tesoriero, A. J., Haggland, A. L., Puget Sound Action Team, Olympia, WA (USA)., and Droscher, T. (ed) (2002). Summary of major findings from the U.S. Geological Survey National Water-Quality Assessment Program in the Puget Sound Basin. Rejection Code: SURVEY.
- 338. Eberle, D. O. and Novak, D. (1969). Fate of Diazinon in Field-Sprayed Agricultural Crops, Soil, and Olive Oil. *J.AOAC (Assoc.Off.Anal.Chem.) Int.* 52: 1067-1075.
  - ; Habitat: T; Effect Codes: ACC
- 339. Edery, H., Porath, Gila, and Zahavy, J. (1966). Passage of 2-hydroxyiminomethyl-N-methylpyridinium methanesulfonate to the fetus and cerebral spaces. *Toxicology and Applied Pharmacology* 9: 341-346.

  Rejection Code: NO COC.
- 340. Edge, V. E. and Casimir, M. (1976). Toxicity of Insecticides to Adult Australian Plague Locust, Chortoicetes terminifera (Orthoptera: Acrididae). *J.Aust.Entomol.Soc.* 14: 321-326.
  - ; Habitat: T; Effect Codes: MOR
- 341. Edson, E. F. and Noakes, D. N. (1960). The Comparative Toxicity of Six Organophosphorus Insecticides in the Rat. *Toxicol.Appl.Pharmacol.* 2: 523-539.
  - ; Habitat: T; Effect Codes: MOR, BCM, CEL
- 342. Edwards, C. A. (1978). Pesticides and the Micro-fauna of Soil and Water. *In: I.R.Hill and S.J.L.Wright* (Eds.), Pesticide Microbiology: Microbiological Aspects of Pesticide Behaviour in the Environment, Chapter 9, Acad.Press, London 603, 616-622.

  Rejection Code: REVIEW.
- 343. Edwards, C. A. (1988). The Use of Key Indicator Processes for Assessment of the Effects of Pesticides on Soil Indicators. *In: Brighton Crop Prot.Conf.*, *Pests and Diseases 1988, Lavenham Press Ptd.*, *Lavenham, U.K.* 2: 739-746.

- ; Habitat: T; Effect Codes: POP
- 344. EDWARDS CA, EDWARDS WM, and SHIPITALO MJ (1992). EARTHWORM POPULATIONS UNDER CONSERVATION TILLAGE AND THEIR EFFECTS ON TRANSPORT OF PESTICIDES INTO GROUNDWATER. THE BRITISH CROP PROTECTION COUNCIL. BRIGHTON CROP PROTECTION CONFERENCE: PESTS AND DISEASES, VOLS. 1, 2 AND 3; INTERNATIONAL CONFERENCE, BRIGHTON, ENGLAND, UK, NOVEMBER 23-26, 1992. XXII+456P.(VOL. 1); XXII+461P.(VOL. 2); XXII+358P.(VOL. 3) BRITISH CROP PROTECTION COUNCIL (BCPC): FARNHAM, ENGLAND, UK. ISBN 0-948404-65-5.; 0 (0). 1992. 859-864. Rejection Code: FATE.
- 345. Ehrenfreund, J. and Zbiral, E. (1972). Reaktionen polyvalenter jodverbindungen--III: Umwandlung von olefinen in [alpha]-azidocarbonylverbindungen mit hilfe von C6H5J(OAc)2---(CH3)3SiN3. *Tetrahedron* 28: 1697-1704. Rejection Code: METHODS.
- 346. Ehrenpreis, Seymour (1960). Isolation and identification of the acetylcholine receptor protein of electric tissue. *Biochimica et Biophysica Acta* 44: 561-577.

  Rejection Code: METHODS.
- 347. Eijsackers, H. (1998). Earthworms In Environmental Research Still A Promising Tool. Selected Papers From The Fifth International Symposium On Earthworm Ecology, Columbus, Ohio, Usa, July 1994.Vi+389p.Crc Press, Inc.: Boca Raton, Florida, Usa; London, England, Uk.Isbn 1-884015-74-3. 295-323.

  Rejection Code: REFS CHECKED/REVIEW.
- 348. Eisler, R. (1986). Diazinon hazards to fish, wildlife, and invertebrates: A synoptic review. Rejection Code: REVIEW.
- 349. Eisler, R. (1986). Diazinon Hazards to Fish, Wildlife, and Invertebrates: A Synoptic Review. *Fish Rev* 31(4):86-005253 / U.S.Fish Wildl.Serv.Biol.Rep.85(1.9) 37 p. Rejection Code: REVIEW.
- 350. EITZER BD and CHEVALIER, A. (1999). Landscape care pesticide residues in residential drinking water wells. BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY; 62 420-427.
  Rejection Code: SURVEY.
- 351. El Baraka, Mohamed, Pecheur, Eve I., Wallach, Donald F. H., and Philippot, Jean R. (1996). Non-phospholipid fusogenic liposomes. *Biochimica et Biophysica Acta (BBA) Biomembranes* 1280: 107-114.

  Rejection Code: METHODS.
- 352. El Elaimy, I. A., El Saadany, M. M., Gabr, S. A., and Sakr, S. A. (1990). Pesticide-Poisoning to Fresh Water Teleost VIII. Ultrastructural Alterations of the Intestine of Tilapia nilotica Under Stress of Exposure to. *J.Egypt.Ger.Soc.Zool.* 1: 223-236.
  - ; Habitat: A; Effect Codes: CEL
- 353. El-Refai, A. and Mowafy, M. M. (1973). Propanil Hydrolysis: Inhibition in Rice Plants by Diazinon and Carbaryl Translocated from the Soil. *J.AOAC (Assoc.Off.Anal.Chem.) Int.* 56: 1178-1182.
  - ; Habitat: T; Effect Codes: BCM,POP

- 354. Ellena, Jeffrey F., Archer, Sharon J., Dominey, Raymond N., Hill, Brian D., and Cafiso, David S. (1988). Localizing the nitroxide group of fatty acid and voltage-sensitive spin-labels in phospholipid bilayers. *Biochimica et Biophysica Acta (BBA) Biomembranes* 940: 63-70. Rejection Code: METHODS.
- 355. ELLENSON WD, MUKERJEE, S., STEVENS RK, WILLIS RD, SHADWICK DS, SOMERVILLE MC, and LEWIS RG (1997). An environmental scoping study in the Lower Rio Grade Valley of Texas: II. Assessment of transboundary pollution transport and other activities by air quality monitoring. *ENVIRONMENT INTERNATIONAL*; 23 643-655.

  Rejection Code: FATE.
- 356. Elliott, M. (1980). The Future for Insecticides. *In: M.Locke and D.S.Smith (Eds.), Insect Biology in the Future, Academic Press Inc., New York, NY* 879-904.

  Rejection Code: REFS CHECKED/REVIEW.
- 357. Elsirafy, A. A., Ghanem, A. A., Eid, A. E., and Eldakroory, S. A. (2000). Chronological study of diazinon in putrefied viscera of rats using GC/MS, GC/EC and TLC. *Forensic Science International* 109: 147-157.

  Rejection Code: METABOLISM.
- 358. Endo, S., Mintarsih, T. H., and Kazano, H. (1985). Disappearance of Diazinon, Isoxathion and Cartap Applied to Rice Plant. *Proc.Assoc.Plant Prot.Kyushu* 31: 115-118 (JPN) (ENG ABS). Rejection Code: NON-ENGLISH.
- 359. ERDMANN, F., BROSE, C., and SCHUETZ, H. (1990). A TLC screening program for 170 commonly used pesticide using the corrected Rf value (Rcf value). *INT J LEG MED*; 104 25-32. Rejection Code: METHODS.
- 360. Erzen, Ida and Brzin, Miro (1978). Cholinergic mechanisms in hydra. *Comparative Biochemistry and Physiology Part C: Comparative Pharmacology* 59: 39-43.

  Rejection Code: IN VITRO.
- 361. Esposito, Raymond G. and Fletcher, Alison M. (1961). The relationship of pteridine biosynthesis to the action of copper 8-hydroxyquinolate on fungal spores. *Archives of Biochemistry and Biophysics* 93: 369-376.
  Rejection Code: NO COC.
- 362. ETO, M. (1997). Functions of phosphorus moiety in agrochemical molecules. *BIOSCIENCE BIOTECHNOLOGY AND BIOCHEMISTRY*; 61 1-11.

  Rejection Code: NO SPECIES.
- 363. Eto, M., Seifert, J., Engel, J. L., and Casida, J. E. (1980). Organophosphorus and Methylcarbamate Teratogens: Structural Requirements for Inducing Embryonic Abnormalities in Chickens and Kynurenine Formamidase Inhibition in Mouse Liver. *Toxicol.Appl.Pharmacol.* 54: 20-30.
  - ; Habitat: T; Effect Codes: PHY,GRO
- 364. Etxeberria, E., Gonza(acute)lez, P., Tomlinson, P., and Pozueta-Romero, J. (2005). Existence of two parallel mechanisms for glucose uptake in heterotrophic plant cells. *Journal of Experimental Botany*, 56 (417) pp. 1905-1912, 2005.

  Rejection Code: IN VITRO.
- 365. Eulitz, E. G. (1986). Initial Experiments in the Control of False Wireworm (Tenebrionidae) on Tobacco Transplants. *Phytophylactica* 18: 115-119.

- 366. Evans, J. R., Edwards, D. R. \*., Workman, S. R., and Williams, R. M. (1998). Response of runoff diazinon concentration to formulation and post-application irrigation. *Transactions of the ASAE [Trans. ASAE]. Vol. 41, no. 5, pp. 1323-1329. Sep-Oct 1998.*Rejection Code: FATE.
- 367. Evans, J. R., Edwards, D. R., Workman, S. R., and Williams, R. M. (1998). Response of Runoff Diazinon Concentration to Formulation and Post-Application Irrigation. *Trans.ASAE (Am.Soc.Agric.Eng.)* 41: 1323-1329.

  Rejection Code: NO TOX DATA.
- 368. Evtugyn, G. A., Ivanov, A. N., Gogol, E. V., Marty, J. L., and Budnikov, H. C. (1999). Amperometric flow-through biosensor for the determination of cholinesterase inhibitors. *Analytica Chimica Acta* 385: 13-21.

  Rejection Code: METHODS.
- 369. Evtugyn, G. A., Rizaeva, E. P., Stoikova, E. E., Latipova, V. Z., and Budnikov, H. C. (1997). The Application of Cholinesterase Potentiometric Biosensor for Preliminary Screening of the Toxicity of Waste Waters. *Electroanalysis* 9: 1124-1128.

  <u>Rejection Code</u>: EFFLUENT.
- 370. Eytan, Gera D., Broza, Rachel, and Shalitin, Yechiel (1988). Gramicidin S and dodecylamine induce leakage and fusion of membranes at micromolar concentrations. *Biochimica et Biophysica Acta* (*BBA*) *Biomembranes* 937: 387-397. Rejection Code: METHODS.
- 371. Ezz El Arab, Abla, Attar, Abdulrahman, Ballhorn, Lothar, Freitag, Dieter, and Korte, Friedhelm (1990). Behavior of diazinon in a perch species. *Chemosphere* 21: 193-199. Rejection Code: METABOLISM.
- 372. Farnham, A. W. (1971). Changes in Cross-Resistance Patterns of Houseflies Selected with Natural Pyrethrins or Resmethrin (5-Benyl-3-Furymethyl (+ -)-cis-trans-Chrysanthemate). *Pest Sci.* 2: 138-143.
  - ; Habitat: T; Effect Codes: MOR
- 373. FARRIS GA, CABRAS, P., and SPANEDDA, L. (1992). PESTICIDE RESIDUES IN FOOD PROCESSING. *ITAL J FOOD SCI; 4* 149-169.

  <u>Rejection Code</u>: HUMAN HEALTH.
- 374. Faust, S. D. and Gomaa, H. M. (1972). Chemical Hydrolysis of Some Organic Phosphorus and Carbamate Pesticides in Aquatic Environments. *Environ.Lett.* 3: 171-201. Rejection Code: REVIEW.
- 375. Feigenbrugel, Valerie, Le Calve, Stephane, and Mirabel, Philippe (2004). Temperature dependence of Henry's law constants of metolachlor and diazinon. *Chemosphere* 57: 319-327. Rejection Code: METHODS.
- 376. Fellers, G. M., McConnell, L. L., Pratt, D., and Datta, S. (2004). Pesticides in mountain yellow-legged frogs (Rana muscosa) from the Sierra Nevada Mountains of California, USA. *Environmental Toxicology and Chemistry [Environ. Toxicol. Chem.]. Vol. 23, no. 9, pp. 2170-2177. Sep 2004.* Rejection Code: SURVEY.
- 377. Fernandez-Alba, A. R., Guil, L. H., Lopez, G. D., and Chisti, Y. (2001). Toxicity of Pesticides in Wastewater: A Comparative Assessment of Rapid Bioassays. *Anal.Chim.Acta* 426: 289-301.

- ; Habitat: A; Effect Codes: MOR
- 378. FINIZIO, A., VIGHI, M., and SANDRONI, D. (1997). Determination of N-octanol/water partition coefficient (Kow) of pesticide critical review and comparison of methods. *CHEMOSPHERE*; *34* 131-161.

  Rejection Code: METHODS, REVIEW.
- 379. FISCHER AB, BIGALKE, B., HERR, C., and EIKMANN, T. (1999). Pest control in public institutions. *TOXICOLOGY LETTERS (SHANNON); 107 (1-3). 1999. 75-80.*Rejection Code: NO TOX DATA.
- 380. Fix, Marina and Melchior, Donald L. (2002). The Fluorosome(TM) technique for investigating membrane on- and off-loading of drugs by [beta]-CD and sonicated SUV. *FEBS Letters* 516: 109-112. Rejection Code: METHODS.
- 381. Fleischli, M. A., Franson, J. C., Thomas, N. J., Finley, D. L., and Riley, W. (2004). Avian Mortality Events in the United States Caused by Anticholinesterase Pesticides: A Retrospective Summary of National Wildlife Health Center Records from 1980 to 2000. Archives of Environmental Contamination and Toxicology [Arch. Environ. Contam. Toxicol.]. Vol. 46, no. 4, pp. 542-550. May 2004.
  Rejection Code: REVIEW, INCIDENT.
- 382. Foe, C. (1995). Insecticide Concentrations and Invertebrate Bioassay Mortality in Agricultural Return Water from the San Joaquin Basin. *Staff Rep.*, *Central Valley Reg.Water Qual.Control Bd.*, *Sacramento*, *CA*.

  Rejection Code: EFFLUENT.
- 383. Foe, C., Deanovic, C. L., and Hinton, D. (1998). Toxicity Identification Evaluations of Orchard Dormant Spray Storm Runoff. *Staff Rep.*, *Central Valley Reg.Water Qual.Control Bd.*, *Sacramento*, *CA*. Rejection Code: EFFLUENT.
- 384. Foreman, W. T., Majewski, M. S., Goolsby, D. A., Wiebe, F. W., and Coupe, R. H. (2000). Pesticides in the atmosphere of the Mississippi River Valley, part II -- air. *The Science of The Total Environment* 248: 213-226.

  Rejection Code: SURVEY.
- 385. Forrest, M., Lord, K. A., Walker, N., and Woodville, H. C. (1981). The Influence of Soil Treatments on the Bacterial Degradation of Diazinon and Other Organophosphorus Insecticides. *Environ.Pollut.Ser.A* 24: 93-104.

  Rejection Code: BACTERIA.
- 386. Forrest, Margaret, Lord, K. A., Walker, N., and Woodville, H. C. (1981). The influence of soil treatments on the bacterial degradation of diazinon and other organophosphorus insecticides. *Environmental Pollution Series A, Ecological and Biological* 24: 93-104.

  Rejection Code: BACTERIA.
- 387. Forrest, Margaret, Lord, K. A., Walker, N., and Woodville, H. C. (1981). The influence of soil treatments on the bacterial degradation of diazinon and other organophosphorus insecticides. *Environmental Pollution Series A, Ecological and Biological* 24: 93-104.

  Rejection Code: FATE.
- 388. FORRESTER DJ, DAVIDSON WR, LANGE, R. E. JR, STROUD RK, ALEXANDER LL, FRANSON JC, HASELTINE SD, LITTELL RC, and NESBITT SA (1997). Winter mortality of common loons in Florida coastal waters. *JOURNAL OF WILDLIFE DISEASES*; 33 833-847. Rejection Code: SURVEY.

- 389. Frank, R., Braun, H. E., Ishida, K., and Suda, P. (1976). Persistent Organic and Inorganic Pesticide Residues in Orchard Soils and Vineyards of Southern Ontario. *Can.J.Soil Sci.* 56: 463-484. Rejection Code: FATE.
- 390. FRASER LH (1998). Top-down vs bottom-up control influenced by productivity in a North Derbyshire, UK, dale. *OIKOS*; *81* 99-108. Rejection Code: NO EFFECT.
- 391. FRASER LH and GRIME JP (1997). Primary productivity and trophic dynamics investigated in a North Derbyshire, UK, dale. *OIKOS*; 80 499-508.

  <u>Rejection Code</u>: MODELING.
- 392. Fredeen, F. J. H. (1972). Reactions of the Larvae of Three Rheophilic Species of Trichoptera to Selected Insecticides. *Can.Entomol.* 104: 945-953.
  - ; Habitat: A; Effect Codes: MOR
- 393. Frick Elizabeth A, Dalton Melinda S, and Hatcher, K. J. (ed) (2005). Characterization of Anthropogenic Organic Compounds in the Source Water and Finished Water for the city of Atlanta, October 2002-September 2004.

  Rejection Code: SURVEY.
- 394. Frijters, Charles M. G., Tuijn, Coosje J., Hoek, Frans J., Groen, Albert K., Oude Elferink, Ronald P. J., and N. Zegers, Bart (1998). Reversed-phase liquid chromatographic method for the determination of 7-nitrobenz-2-oxa-1,3-diazol-4-yl-labelled lipid analogues. *Journal of Chromatography B: Biomedical Sciences and Applications* 710: 9-16.

  Rejection Code: METHODS.
- 395. Fujii, Y. and Asaka, S. (1982). Metabolism of Diazinon and Diazoxon in Fish Liver Preparations. *Bulletin of Environmental Contamination and Toxicology [BULL. ENVIRON. CONTAM. TOXICOL.]. Vol.* 29, no. 4, pp. 455-460. 1982.

  Rejection Code: IN VITRO.
- 396. Fujii, Y. and Asaka, S. (1982). Metabolism of Diazinon in Fish Liver Preparations. *Bull.Environ.Contam.Toxicol.* 29: 455-460. <u>Rejection Code</u>: IN VITRO/METABOLISM.
- 397. Fukushima, M., Yamaguchi, Y., and Yamada, A. (1995). Temporal trend of pesticide pollution in river water as a source of potable water.

  <u>Rejection Code</u>: SURVEY.
- 398. Funaki, E. and Motoyama, N. (1986). Cross Resistance to Various Insecticides of the Housefly Selected with a Pyrethroid. *J.Pestic.Sci.* 11: 219-222.
  - ; Habitat: T; Effect Codes: MOR
- 399. Furlong, C. E., Li, W. F., Brophy, V. H., Jarvik, G. P., Richter, R. J., Shih, D. M., Lusis, A. J., and Costa, L. G. (2000). The PON1 Gene and Detoxication. *Neurotoxicology [Neurotoxicology]. Vol. 21, no. 4, pp. 581-588. Aug 2000.*Rejection Code: HUMAN HEALTH.
- 400. Furlong, C. E., Li, W. F., Costa, L. G., Richter, R. J., Shih, D. M., and Lusis, A. J. (1998). Genetically determined susceptibility to organophosphorus insecticides and nerve agents: Developing a mouse model for the human PON1 polymorphism. *Neurotoxicology* [*Neurotoxicology*]. *Vol. 19, no. 4-5, pp. 645-650. Aug-Oct 1998.*

- Rejection Code: HUMAN HEALTH.
- 401. Furlong, C. E., Li, W. F., Richter, R. J., Shih, D. M., Lusis, A. J., Alleva, E., and Costa, L. G. (2000). Genetic and temporal determinants of pesticide sensitivity: Role of paraoxonase (PON1). *Neurotoxicology [Neurotoxicology]. Vol. 21, no. 1-2, pp. 91-100. Feb-Apr 2000.*<u>Rejection Code</u>: HUMAN HEALTH.
- 402. FUTAGAWA, H. and TAKAHASHI, H. (1996). INHIBITORY EFFECTS OF ORGANOPHOSPHORUS INSECTICIDE DIAZINON ON THE ISOLATED VASCULAR SMOOTH MUSCLE CONTRACTION. 23RD ANNUAL MEETING OF THE JAPANESE SOCIETY OF TOXICOLOGICAL SCIENCES, FUKUOKA, JAPAN, JULY 24-26, 1996. JOURNAL OF TOXICOLOGICAL SCIENCES; 21 399.

  Rejection Code: ABSTRACT.
- 403. Gadella, Jr. Theodorus W. J. and Wirtz, Karel W. A. (1991). The low-affinity lipid binding site of the non-specific lipid transfer protein. Implications for its mode of action. *Biochimica et Biophysica Acta (BBA) Biomembranes* 1070: 237-245.

  Rejection Code: METHODS.
- 404. Gaines, T. B. (1969). Acute Toxicity of Pesticides. Toxicol. Appl. Pharmacol. 14: 515-534.
  - ; Habitat: T; Effect Codes: MOR
- 405. Gaines, T. B. (1969). Acute Toxicity of Pesticides. Toxicol. Appl. Pharmacol. 14: 515-534.
- 406. Galindo-Reyes, J. G., Dalla Venezia, L., Lazcano-Alvarez, G., and Rivas-Mendoza, H. (2000). Enzymatic and Osmoregulative Alterations in White Shrimp Litopenaeus vannamei Exposed to Pesticides. *Chemosphere* 40: 233-237.
  - ; Habitat: A; Effect Codes: PHY,BCM
- 407. Galinis, Deborah L., Wiemer, David F., and CazinJr., John (1993). Cissampentin: A new bisbenzylisoquinoline alkaloid from Cissampelos fasciculata. *Tetrahedron* 49: 1337-1342. Rejection Code: METHODS.
- 408. Galli, R., Rich, H. W., and Scholtz, R. (1994). Toxicity of Organophosphate Insecticides and Their Metabolites to the Water Flea Daphnia magna, the Microtox Test and an Acetylcholinesterase. *Aquat.Toxicol.* 30: 259-269.
  - ; Habitat: A; Effect Codes: PHY
- 409. Galloway, T. and Handy, R. (2003). Immunotoxicity of Organophosphorous Pesticides. *Ecotoxicology [Ecotoxicology]. Vol. 12, no. 1-4, pp. 345-363. Feb-Aug 2003.*Rejection Code: REVIEW.
- 410. Garces-Garcia, Marta, Brun, Eva M., Puchades, Rosa, and Maquieira, Angel (2006). Immunochemical determination of four organophosphorus insecticide residues in olive oil using a rapid extraction process. *Analytica Chimica Acta* 556: 347-354. Rejection Code: METHODS.
- 411. Garcia, M. A., Melgar, M. J., and Fernandez, M. I. (1994). Evidence for the safety of coumaphos, diazinon and malathion residues in honey. *Veterinary and Human Toxicology [VET. HUM. TOXICOL.]* 36: 429-432.

  Rejection Code: NO SPECIES, SURVEY.

- 412. Garcia, M. A., Melgar, M. J., and Fernandez, M. I. (1994). Evidence for the safety of coumaphos, diazinon and malathion residues in honey. *Veterinary and Human Toxicology [VET. HUM. TOXICOL.]. Vol. 36, no. 5, pp. 429-432. 1994.*<u>Rejection Code</u>: HUMAN HEALTH.
- 413. Garfitt, S. J., Jones, K., Mason, H. J., and Cocker, J. (2002). Exposure to the organophosphate diazinon: data from a human volunteer study with oral and dermal doses. *Toxicology Letters [Toxicol. Lett.]. Vol. 134, no. 1-3, pp. 105-113. 5 Aug 2002.*Rejection Code: HUMAN HEALTH.
- 414. Garrett, N. E., Stack, H. F., and Waters, M. D. (1986). Evaluation of the Genetic Activity Profiles of 65 Pesticides. *Mutat.Res.* 168: 301-325.

  Rejection Code: REFS CHECKED/REVIEW.
- 415. GARRETT NE, STACK HF, and WATERS MD (1986). EVALUATION OF THE GENETIC ACTIVITY PROFILES OF 65 PESTICIDES. *MUTAT RES*; 168 (3). 1986 (RECD. 1987). 301-326. Rejection Code: METHODS.
- 416. Garrood, A. C., Akroyd, C., Beverley, M., Boryslawskyj, M., Pearson, J. T., and Woodhead, D. (1989). Elevation of Glutathione Transferase in Molluscs in Response to Xenobiotics. *In: Responses of Mar.Organisms to Pollutants* 147 (ABS). Rejection Code: ABSTRACT.
- 417. GAULTNEY LD, HOWARD KD, and MULROONEY JE (1996). OFF-TARGET DRIFT WITH AIR-ASSISTED AGRICULTURAL SPRAYERS. HOPKINSON, M. J., H. M. COLLINS AND G. R. GOSS (ED.). ASTM STP, 1312. PESTICIDE FORMULATIONS AND APPLICATIONS SYSTEMS: 16TH VOLUME; SIXTEENTH SYMPOSIUM ON PESTICIDE FORMULATIONS AND APPLICATION SYSTEMS, NORFOLK, VIRGINIA, USA, NOVEMBER 14-15, 1995. VIII+216P. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM): PHILADELPHIA, PENNSYLVANIA, USA. ISBN 0-8031-2035-4.; 0 (1312). 1996. 104-113.

  Rejection Code: NO TOX DATA.
- 418. Gautam, R. K., Gautam, K., and Tejeshwarilal, K. (2002). Effects of Pesticides on Gastro Intestinal Nucleic Acids in Channa punctatus. *J. Ecotoxicol Environ Monit.* 12: 57-60.
  - ; Habitat: A; Effect Codes: CEL
- 419. Gencsoylu, I., Liu, W., Usmani, K. A., and Knowles, C. O. (1998). Toxicity of Acaricides to the Bulb Mite Rhizoglyphus echinopus (Acari: Acaridae). *Exp.Appl.Acarol.* 22: 343-351.
  - ; Habitat: T; Effect Codes: MOR
- 420. George, T. K., Liber, K., Solomon, K. R., and Sibley, P. K. (2003). Assessment of the Probabilistic Ecological Risk Assessment-Toxic Equivalent Combination Approach for Evaluating Pesticide Mixture Toxicity to Zooplankton in Outdoor Microcosms. Archives of Environmental Contamination and Toxicology [Arch. Environ. Contam. Toxicol.]. Vol. 45, no. 4, pp. 453-461. Dec 2003.
  Rejection Code: MIXTURE.
- 421. Getzin, L. W. (1967). Metabolism of Diazinon and Zinophos in Soils. *J.Econ.Entomol.* 60: 505-508. Rejection Code: METABOLISM.
- 422. Getzin, L. W. and Rosefield, I. (1966). Persistence of Diazinon and Zinophos in Soils. *J.Econ.Entomol.* 50: 512-516.

  Rejection Code: NO TOX DATA.

- 423. Ghatge, N. D. and Mohite, S. S. (1987). Disiloxane-containing difunctional compounds: Synthesis and reactivity of 1,3-bis-(p-isocyanatophenyl) disiloxanes. *Polyhedron* 6: 435-440. Rejection Code: METHODS.
- 424. Ghidoni, Riccardo, Sala, Giusy, and Giuliani, Attilia (1999). Use of sphingolipid analogs: benefits and risks. *Biochimica et Biophysica Acta (BBA) Molecular and Cell Biology of Lipids* 1439: 17-39. Rejection Code: METHODS.
- 425. Giordani, Cristiana, Licandro, Emanuela, Maiorana, Stefano, Papagni, Antonio, Slawin, Alexandra M., and William, David J. (1990). Reactions of chromium (methoxymethyl)carbene complexes with 3H-indoles. *Journal of Organometallic Chemistry* 393: 227-236.

  Rejection Code: METHODS.
- 426. Glass, P. W., Jordan, B. L., Mancini, J. L., and Mathews, J. (1995). WET Testing Faces Diazinon Dilemma. *Water Environ.Technol.* 29-30.

  Rejection Code: EFFLUENT.
- 427. Glotfelty, D. E., Schomburg, C. J., McChesney, M. M., Sagebiel, J. C., and Seiber, J. N. (1990). Studies of the distribution, drift, and volatilization of diazinon resulting from spray application to a dormant peach orchard. *Chemosphere* 21: 1303-1314.

  <u>Rejection Code</u>: FATE.
- 428. Glotfelty, D. E., Schomburg, C. J., Mcchesney, M. M., Sagebiel, J. C., and Seiber, J. N. (1990). Studies of the Distribution, Drift, and Volatilization of Diazinon Resulting from Spray Application to a Dormant Peach Orchard. *Chemosphere* 21: 1303-1314.

  Rejection Code: NO TOX DATA.
- 429. Goel, R. G. and Prasad, H. S. (1973). Organobismuth compounds: V. Preparation, characterization, and properties of triphenylbismuth diazide and dicyanide. *Journal of Organometallic Chemistry* 50: 129-134.
  Rejection Code: METHODS.
- 430. Golenda, C. F. and Forgash, A. J. (1985). Fenvalerate Cross-Resistance in a Resmethrin-Selected Strain of the House Fly (Diptera: Muscidae). *J.Econ.Entomol.* 78: 19-24.
  - ; Habitat: T; Effect Codes: MOR
- 431. Gomaa, H. M., Suffet, I. H., and Faust, S. D. (1969). Kinetics of Hydrolysis of Diazinon and Diazoxon. *Residue Rev.* 29: 171-190.

  <u>Rejection Code</u>: NO SPECIES.
- 432. Gomez, F., Martinez-Toledo, M. V., Salmeron, V., Rodelas, B., and Gonzalez-Lopez, J. (1999). Influence of the insecticides profenofos and diazinon on the microbial activities of Azospirillum brasilense. *Chemosphere* 39: 945-957.

  <u>Rejection Code</u>: BACTERIA.
- 433. Gomez-Gutierrez, Anna I., Jover, Eric, Bodineau, Laurent, Albaiges, Joan, and Bayona, Josep M. (Organic contaminant loads into the Western Mediterranean Sea: Estimate of Ebro River inputs.

  \*Chemosphere\* In Press, Corrected Proof.

  Rejection Code: SURVEY.
- 434. Grafton-Cardwell, E. E. and Hoy, M. A. (1985). Intraspecific Variability in Response to Pesticides in the Common Green Lacewing, Chrysoperla carnea (Stephens) (Neuroptera: Chrysopidae). *Hilgardia* 53: 1-31.

- ; Habitat: T; Effect Codes: MOR, REP
- 435. Granifo, J., Vargas, M. E., Costamagna, J., and Francois, M. A. (1988). Coordination of a polyfunctional cyclic ligand containing a P---P bond to the fragment [Mo(CO)3(NN)] (NN = 2,2′-bipyridine, 1,10-phenanthroline). Spectroscopic and electrochemical characterization. *Polyhedron* 7: 489-494.

  Rejection Code: METHODS.
- 436. Granon, S. (1986). Spectrofluorimetric study of the bile salt micelle binding site of pig and horse colipases. Biochimica et Biophysica Acta (BBA) - Protein Structure and Molecular Enzymology 874: 54-60. Rejection Code: METHODS.
- 437. Graves, David E., Yielding, Lerena W., Watkins, Charles L., and Yielding, K. Lemone (1977). Synthesis, separation and characterization of the mono- and diazide analogs of ethidium bromide.

  \*\*Biochimica et Biophysica Acta (BBA) Nucleic Acids and Protein Synthesis 479: 98-104.

  \*\*Rejection Code: METHODS.\*\*
- 438. Gray, R. A., Gauger, G. W., Dulaney, E. L., Kaczka, E. A., and Woodruff, H. B. (1964). Hadacidin, A New Plant Growth Inhibitor Produced by Fermentation. *Plant Physl* 39: 204-207.
  - ; Habitat: T; Effect Codes: GRO
- 439. Grechishnikova, Irina V., Bergstrom, Fredric, Johansson, Lennart B. A., Brown, Rhoderick E., and Molotkovsky, Julian G. (1999). New fluorescent cholesterol analogs as membrane probes. *Biochimica et Biophysica Acta (BBA) Biomembranes* 1420: 189-202. Rejection Code: METHODS.
- 440. GREEN, D. E. II, BURPEE LL, and STEVENSON KL (1999). Integrated effects of host resistance and fungicide concentration on the progress of Rhizoctonia blight in tall fescue turf. *CROP PROTECTION*; *18* 131-138.

  Rejection Code: NO COC.
- 441. Greve, P. A., Freudenthal, J., and Wit, S. L. (1972). Potentially hazardous substances in surface waters. 2. Cholinesterase inhibitors in Dutch surface waters. *Science of the Total Environment [Sci. Total Environ.]*. Vol. 1, no. 3, pp. 253-265. 1972.

  Rejection Code: SURVEY.
- 442. Grewal, P. S., Richardson, P. N., COLLINS, G., and Edmondson, R. N. (1992). Comparative Effects of Steinernema feltiae (Nematoda: Steinernematidae) and Insecticides on Yield and Cropping of the Mushroom Agaricus bisporus. *Ann.Appl.Biol.* 121: 511-520.
  - ; Habitat: T; Effect Codes: GRO,POP
- 443. Griffiths, John and Lockwood, Martin (1975). Photochemical ring contraction reactions of some 9,10-anthraquinone ortho quinone diazides. *Tetrahedron Letters* 16: 683-686. Rejection Code: METHODS.
- 444. Grosch, D. S. (1973). Reproduction Tests: The Toxicity for Artemia of Derivatives From Non-Persistent Pesticides . *Biol.Bull.* 145: 340-351.
  - ; Habitat: A; Effect Codes: REP,MOR,POP
- 445. Gruber, Hermann J. and Schindler, Hansgeorg (1994). External surface and lamellarity of lipid vesicles: a practice-oriented set of assay methods. *Biochimica et Biophysica Acta (BBA) Biomembranes* 1189: 212-224.

- Rejection Code: METHODS.
- 446. Gruber, S. J. and Munn, M. D. (1998). Organophosphate and Carbamate Insecticides in Agricultural Waters and Cholinesterase (ChE) Inhibition in Common Carp (Cyprinus carpio).

  \*\*Arch.Environ.Contam.Toxicol. 35: 391-396.\*\*

  \*\*Rejection Code: MIXTURE.\*\*
- 447. Grunwald, Jacob, Segall, Yoffi, Shirin, Ezra, Waysbort, Daniel, Steinberg, Nitza, Silman, Israel, and Ashani, Yacov (1989). Aged and non-aged pyrenebutyl-containing organophosphoryl conjugates of chymotrypsin: Preparation and comparison by 31P-NMR spectroscopy. *Biochemical Pharmacology* 38: 3157-3168.

  Rejection Code: METHODS.
- 448. Guddewar, Madhukar B. and Dauterman, Walter C. (1979). Purification and properties of a glutathione-Stransferase from corn which conjugates s-triazine herbicides. *Phytochemistry* 18: 735-740. Rejection Code: IN VITRO.
- 449. Guerrero, F. D., Alison, M. W. Jr., Kammlah, D. M., and Foil, L. D. (2002). Use of the Polymerase Chain Reaction to Investigate the Dynamics of Pyrethroid Resistance in Haematobia irritans irritans (Diptera: Muscidae). *J.Med.Entomol.* 39: 747-754.
  - ; Habitat: T; Effect Codes: MOR
- 450. Guerrero, F. D., Pruett, J. H., Kunz, S. E., and Kammlah, D. M. (1999). Esterase Profiles of Diazinon-Susceptible and -Resistant Horn Flies (Diptera: Muscidae). *J.Econ.Entomol.* 92: 286-292.
  - ; Habitat: T; Effect Codes: MOR, BCM
- 451. Guerrero, Felix D. (2000). Cloning of a horn fly cDNA, Hi[alpha]E7, encoding an esterase whose transcript concentration is elevated in diazinon-resistant flies. *Insect Biochemistry and Molecular Biology* 30: 1107-1115.

  Rejection Code: NO TOX DATA.
- 452. GUERRERO-RODRIGUEZ, E., PAXTIAN-HERNANDEZ, J., and AGUIRRE-URIBE LA (1993).
  RESIDUAL FILM BIOASSAY 1989. BURDITT, A. K. JR. (ED.). INSECTICIDE & ACARICIDE
  TESTS, VOL. 18. II+405P. ENTOMOLOGICAL SOCIETY OF AMERICA: LANHAM,
  MARYLAND, USA.; 0 (0). 1993. 374.
  Rejection Code: ABSTRACT, MIXTURE.
- 453. Guglielmone, A. A., Castelli, M. E., Volpogni, M. M., Medus, P. D., Martins, J. R., Suarez, V. H., Anziani, O. S., and Mangold, A. J. (2001). Toxicity of Cypermethrin and Diazinon to Haematobia irritans (Diptera: Muscidae) in Its American Southern Range. *Vet.Parasitol.* 101: 67-73.
  - ; Habitat: T
- 454. Guinn, R., Coulter, J., and Dickson, K. (1995). Use of a Constructed Wetland to Reduce Diazinon Toxicity in a Municipal Wastewater Effluent. *Proc.24th Water for Texas Conf., Texas Water Resour.Inst.*Rejection Code: EFFLUENT.
- 455. Guinn, R., Dickson, K., and Waller, T. (1998). Use of Constructed Wetlands to Treat Diazinon. *Abstract-1.html at twri.tamu.edu* 3.

  Rejection Code: NO DURATION.
- 456. Gunner, H. B. and Zuckerman, B. M. (1968). Degradation of `Diazinon' by Synergistic Microbial Action. *Nature* 217: 1183-1184.

- Rejection Code: BACTERIA.
- 457. Guo, L., Nordmark, C. E., Spurlock, F. C., Johnson, B. R., Li, L., Lee, J. M., and Goh, K. S. (2004). Characterizing Dependence of Pesticide Load in Surface Water on Precipitation and Pesticide Use for the Sacramento River Watershed. *Environmental Science & Technology [Environ. Sci. Technol.]. Vol. 38, no. 14, pp. 3842-3852. 15 Jul 2004.* Rejection Code: FATE.
- 458. Gupta, B. P. and Rai, K. M. (1984). Phytotoxic Effects of Some Insecticides on Peach Saplings. *Prog. Hortic.* 16: 150-152.
- 459. Ha Park, Kwan, Kim, Young-Suk, Chung, Ee-Yung, Choe, Sun-Nam, and Choo, Jong-Jae (2004). Cardiac responses of Pacific oyster Crassostrea gigas to agents modulating cholinergic function.

  \*Comparative Biochemistry and Physiology Part C: Toxicology & Pharmacology 139: 303-308.

  \*Rejection Code: IN VITRO.
- 460. Hadfield, Anthony F., Hough, Leslie, and Richardson, Anthony C. (1978). The synthesis of 6-deoxy-6-fluoro-[alpha],[alpha]-trehalose and related analogues. *Carbohydrate Research* 63: 51-60. Rejection Code: METHODS.
- 461. Hafeman, Dean G., Seul, Michael, Cliffe, II Charles M., and McConnell, Harden M. (1984). Superoxide enhances photobleaching during cellular immune attack against fluorescent lipid monolayer membranes. *Biochimica et Biophysica Acta (BBA) Biomembranes* 772: 20-28. Rejection Code: METHODS.
- 462. Haga, T., Tsujii, Y., Hayashi, K., Kimura, F., Sakashita, N., and Fujikawa, K. I. (1990).

  Trifluoromethylpyridines as Building Blocks for a New Agrochemicals. Discovery of a New Turf Herbicide. In: D.R.Baker, J.G.Fenyes and W.K.Moberg (Eds.), ACS (Am.Chem.Soc.)

  Symp.Ser.No.443, Chapter 9, Synthesis and Chemistry of Agrochemicals II, Meet.Am.Chem.Soc., Washington, D.C. 107-120.
- 463. HAGA, T., TSUJII, Y., HAYASHI, K., KIMURA, F., SAKASHITA, N., and FUJIKAWA K-I (1990).

  TRIFLUOROMETHYLPYRIDINES AS BUILDING BLOCKS FOR NEW AGROCHEMICALS
  DISCOVERY OF A NEW TURF HERBICIDE. BAKER, D. R., J. G. FENYES AND W. K.

  MOBERG (ED.). ACS (AMERICAN CHEMICAL SOCIETY) SYMPOSIUM SERIES, 443.

  SYNTHESIS AND CHEMISTRY OF AGROCHEMICALS II; MEETING. XIII+609P. AMERICAN
  CHEMICAL SOCIETY: WASHINGTON, D.C., USA. ILLUS. ISBN 0-8412-1885-4.; 0 (0). 1990
  (1991). 107-120.

  Rejection Code: METHODS.
- 464. Hall, L. W. Jr (2003). Analysis of diazinon monitoring data from the Sacramento and Feather River watersheds: 1991-2001. *Environmental Monitoring and Assessment [Environ. Monit. Assess.]. Vol. 86, no. 3, pp. 233-253. 2 Aug 2003.*Rejection Code: SURVEY.
- 465. Hall, W. C. (1951). Morphological and Physiological Responses of Carnation and Tomato to Organic Phosphorus Insecticides and Inorganic Soil Phosphorus. *Plant Physl* 26: 502-524.
  - ; Habitat: T; Effect Codes: GRO, BCM, PHY
- 466. Halling, Katrin K. and Slotte, J. Peter (2004). Membrane properties of plant sterols in phospholipid bilayers as determined by differential scanning calorimetry, resonance energy transfer and detergent-induced solubilization. *Biochimica et Biophysica Acta (BBA) Biomembranes* 1664: 161-171.

- Rejection Code: METHODS.
- 467. HAMM JA, VILIALOBOS SA, and HINTON DE (1998). DEVELOPMENTAL TOXICITY IN A LABORATORY SURROGATE FISH SPECIES ROLE OF EMBRYO DEVELOPMENT AND ENVIRONMENTAL FACTORS IN RESPONSE TO PESTICIDES. NINTH INTERNATIONAL SYMPOSIUM ON POLLUTANT RESPONSES IN MARINE ORGANISMS, BERGEN, NORWAY, APRIL 27-30, 1997. MARINE ENVIRONMENTAL RESEARCH; 46 499-500. Rejection Code: ABSTRACT.
- 468. Hanada, Kentaro, Horii, Mio, and Akamatsu, Yuzuru (1991). Functional reconstitution of sphingomyelin synthase in Chinese hamster ovary cell membranes. *Biochimica et Biophysica Acta (BBA) Lipids and Lipid Metabolism* 1086: 151-156.

  <u>Rejection Code</u>: METHODS.
- 469. Hansen, J. A., Marr, J. C. A., Lipton, J., Cacela, D., and Bergman, H. L. (1999). Differences in Neurobehavioral Responses of Chinook Salmon (Oncorhynchus tshawytscha) and Rainbow Trout (Oncorhynchus mykiss) Exposed to Copper and Cobalt: Behavioral Avoidance. *Environ.Toxicol.Chem.* 18: 1972-1978.
  - ; Habitat: A; Effect Codes: BEH
- 470. Hanula, J. L. (1991). Seasonal Abundance and Control of the Rhododendron Gall Midge, Clinodiplosis rhododendri (Felt), in Container Grown Rhododendron catawbiense Michaux. *J.Environ.Hortic.* 9: 68-71.
  - ; Habitat: T; Effect Codes: POP
- 471. Hao, Zhifeng, Tang, Zongxun, and Shi, Qizhen (1999). Preparation spectroscopy and conductivity of [Pt(SS)(NN)]-type complexes and their iodine oxidized complexes. *Inorganica Chimica Acta* 284: 112-115.
  Rejection Code: METHODS.
- 472. Hara, T. J., Law, Y. M. C., and MacDonald, S. (1976). Effects of Mercury and Copper on the Olfactory Response in Rainbow Trout, Salmo gairdneri. *J.Fish.Res.Board Can.* 33: 1568-1573.
  - ; Habitat: A; Effect Codes: PHY
- 473. HARGITAI, L. (1992). SOME ASPECTS OF CHEMICAL TOPOLOGY FROM THE EVALUATION OF PROPERTIES OF HUMIC SUBSTANCES. SYMPOSIUM ON ADVANCES IN HUMIC SUBSTANCES RESEARCH HELD AT THE FIFTH INTERNATIONAL MEETING OF THE INTERNATIONAL HUMIC SUBSTANCES SOCIETY, NAGOYA, JAPAN, AUGUST 6-10, 1990. SCI TOTAL ENVIRON; 117-118 379-392. Rejection Code: NO TOX DATA.
- 474. HARMAN-FETCHO JA, MCCONNELL LL, and BAKER JE (1999). Agricultural pesticides in the Patuxent River, a tributary of the Chesapeake Bay. *JOURNAL OF ENVIRONMENTAL QUALITY*; 28 928-938.

  Rejection Code: SURVEY.
- 475. Harris, C. R. (1967). Further Studies on the Influence of Soil Moisture on the Toxicity of Insecticides in Soil. *J.Econ.Entomol.* 60: 41-44. Rejection Code: NO DURATION.
- 476. Harris, C. R. (1966). Influence of Soil Type on the Activity of Insecticides in Soil. *J.Econ.Entomol.* 59: 1221-1225.

- ; Habitat: T; Effect Codes: MOR
- 477. Harris, C. R. and Svec, H. J. (1970). Laboratory Studies on the Contact Toxicity of Some Insecticides to Honeybees. *Pestic.Prog.* 8: 25-28.
  - ; Habitat: T; Effect Codes: MOR
- 478. Harris, C. R., Turnbull, S. A., and McLeod, D. G. R. (1985). Contact Toxicity of Twenty-One Insecticides to Adults of the Carrot Rust Fly (Diptera: Psilidae). *Can.Entomol.* 117: 1025-1027.
- 479. HARRIS JP ( 1993). HORN FLY CONTROL ON BEEF CATTLE WITH EAR TAGS IN SOUTH MISSISSIPPI 1991. BURDITT, A. K. JR. (ED.). INSECTICIDE & ACARICIDE TESTS, VOL. 18. II+405P. ENTOMOLOGICAL SOCIETY OF AMERICA: LANHAM, MARYLAND, USA.; 0 (0). 1993. 357.

  Rejection Code: ABSTRACT.
- 480. Harris, L. W., Fleisher, J. H., Innerebner, T. A., Cliff, W. J., and Sim, V. M. (1969). The Effects of Atropine-Oxime Therapy on Cholinesterase Activity and the Survival of Animals Poisoned with O,O-Diethyl-O-(2-Isopropyl-6-Methyl-4-Pyrimidinyl) Phosphorothioate. *Toxicol.Appl.Pharmacol.* 15: 216-224.
  - ; Habitat: T; Effect Codes: BCM
- 481. Harris, M. L., Bishop, C. A., Struger, J., Van den Heuvel, M. R., Van der Kraak, G. J., Dixon, D. G., Ripley, B., and Bogart, J. P. (1998). The Functional Integrity of Northern Leopard Frog (Rana pipiens) and Green Frog (Rana clamitans) Populations in Orchard Wetlands: I. Genetics, Physiology, and Biochemistry of Breeding Adults and Young-of-the-Year. *Environ.Toxicol.Chem.* 17: 1338-1350.

  Rejection Code: NO DURATION/SURVEY.
- 482. HASEMAN JK (1990). Use of statistical decision rules for evaluating laboratory animal carcinogenicity studies. *FUNDAM APPL TOXICOL*; *14* 637-648.

  <u>Rejection Code</u>: MODELING.
- 483. Hashimoto, Y. and Fukami, J. I. (1969). Toxicity of Orally and Topically Applied Pesticide Ingredients to Carp, Cyprinus carpio Linne. *Sci.Pest Control (Botyu-Kagaku)* 34: 63-66.
  - ; Habitat: A; Effect Codes: MOR
- 484. Hashimoto, Y. and Nishiuchi, Y. (1981). Establishment of Bioassay Methods for the Evaluation of Acute Toxicity of Pesticides to Aquatic Organisms. *J.Pestic.Sci.* 6: 257-264 (JPN) (ENG ABS).
  - ; Habitat: A; Effect Codes: MOR
- 485. Hashimoto, Y., Okubo, E., Ito, T., Yamaguchi, M., and Tanaka, S. (1982). Changes in Susceptibility of Carp to Several Pesticides with Growth. *J.Pestic.Sci.* 7: 457-461.
  - ; Habitat: A; Effect Codes: MOR
- 486. Hassan, S. A., Bigler, F., Bogenschutz, H., Boller, E., Brun, J., Chiverton, P., Edwards, P., Mansour, F., Naton, E., Oomen, P. A., Overmeer, W. P. J., Polgar, L., Rieckmann, W., Samsoe-Petersen, L., Staubli, A., Sterk, G., Taveres, K., Tuset, J. J., Viggiani, G., and Vivas, A. G. (1988). Results of the Fourth Joint Pesticide Testing Programme Carried Out by the IOBC/WPRS-Working Group.

Pesticides and Beneficial Organisms. J.Appl.Entomol. 105: 321-329.

; Habitat: T

- 487. Hatakeyama, S., Shiraishi, H., and Uno, S. (1997). Overall Pesticide Effects on Growth and Emergence of Two Species of Ephemeroptera in a Model Stream Carrying Pesticide-Polluted River Water. *Ecotoxicology* 6: 167-180.

  <u>Rejection Code</u>: MIXTURE/MODELING.
- 488. Hatjian, B. A., Mutch, E., Williams, F. M., Blain, P. G., and Edwards, J. W. (2000). Cytogenetic response without changes in peripheral cholinesterase enzymes following exposure to a sheep dip containing diazinon in vivo and in vitro. *Mutation Research/Genetic Toxicology and Environmental Mutagenesis* 472: 85-92.

  Rejection Code: HUMAN HEALTH.
- 489. Hatzilazarou, S. P., Charizopoulos, E., Papadopoulou-Mourkidou, E., and Economou, A. S. (2005). Persistence of chlorpyrifos, diazinon and dimethoate sprayed in the greenhouse environment during hydroponic cultivation of Gerbera. *Agronomie*, 25 (2) pp. 193-199, 2005. Rejection Code: FATE.
- 490. Hatzios, K. K., Penner, D., and Bell, D. (1980). Inhibition of Photosynthetic Electron Transport in Isolated Spinach Chloroplasts by Two 1,3,4-Thiadiazolyl Derivatives. *Plant Physiol.* 65: 319-321. Rejection Code: IN VITRO.
- 491. HAVERHOEK, S., KONING, J., VAN STAVEREN NA, and DE RUYTER MA (1997). ADVANCED TREATMENT OF EFFLUENTS FROM AN AGROCHEMICAL FORMULATION PLANT. WATER SCIENCE AND TECHNOLOGY; 35 155-163.

  Rejection Code: METHODS.
- 492. Haverty, M. I. and Wood, J. R. (1981). Residual Toxicity of Eleven Insecticide Formulations to the Mountain Pine Cone Beetle, Conophthorus monticolae Hopkins. *J.Ga.Entomol.Soc.* 16: 77-83.

; Habitat: T; Effect Codes: MOR

- 493. Hay, Robert W., Clifford, Thomas, and Lightfoot, Philip (1998). Copper(II) and zinc(II) complexes of N,N-bis(benzimidazole-2-ylmethyl)-amine. Synthesis, formation constants and the crystal structure of [ZnLCl]2]. MeOH. Catalytic activity of the complexes in the hydrolysis of the phosphotriester 2,4-dinitrophenyl diethyl phosphate. *Polyhedron* 17: 3575-3581.
  Rejection Code: METHODS.
- 494. Hay, Robert W., Clifford, Thomas, Richens, David T., and Lightfoot, Philip (2000). Binuclear copper(II), nickel(II), cobalt(II) and zinc(II) complexes of the macrocycle 1,4,7,16,19,22-hexaaza[9.9]metacyclophane (L). Crystal structure of [Cu2LCl4]0.5[middle dot][Cu2LCl3]ClO4[middle dot]dmf and the copper complex catalysed hydrolysis of the phosphotriester 2,4-dinitrophenyldiethylphosphate. *Polyhedron* 19: 1485-1492. Rejection Code: METHODS.
- 495. Hay, Robert W. and Govan, Norman (1998). The [Cu([9]aneN3)(OH)(OH2)]+ catalysed hydrolysis of the phosphotriester 2,4-dinitrophenyl diethyl phosphate ([9]aneN3 = 1,4,7-triazacyclononane). *Polyhedron* 17: 463-468.

  Rejection Code: METHODS.
- 496. Hay, Robert W. and Govan, Norman (1998). The [Cu(tmen) (OH) (OH2)]+ promoted hydrolysis of 2,4-dinitrophenyl diethyl phosphate and O-isopropyl methylphosphonofluoridate (Sarin) (tmen = N,N,N′,N′-tetramethyl-1,2-diaminoethane). *Polyhedron* 17: 2079-2085.

Rejection Code: METHODS.

497. Hay, Robert W. and Govan, Norman (1997). A lanthanum macrocycle catalysed hydrolysis of 2,4-dinitrophenyl diethyl phosphate and O-isopropyl methylfluorophosphote (Sarin). *Polyhedron* 16: 4233-4237.
 Rejection Code: METHODS.

498. Hay, Robert W. and Govan, Norman (1996). The reactivity of metal-hydroxo nucleophiles and a range of bases in the hydrolysis of the phosphate triester 2,4-dinitrophenyl diethyl phosphate. *Polyhedron* 15: 2381-2386.

Rejection Code: METHODS.

499. Hay, Robert W., Govan, Norman, and Parchment, Karen E. (1998). A metallomicelle catalysed hydrolysis of a phosphate triester, a phosphonate diester and O-isopropyl methylfluorophosphonate (Sarin).

\*\*Inorganic Chemistry Communications 1: 228-231.\*\*

\*\*Rejection Code: METHODS.\*\*

500. Hayashi, A., Shinonaga, S., Hii, J., and Kano, R. (1979). Levels of Resistance to Six Synthetic Insecticides in the Borneo Housefly. *Bull.Tokyo Med.Dent.Univ.* 26: 1-3.

; Habitat: T; Effect Codes: MOR

501. Hayashi, Hiroshi, Kono, Kenji, and Takagishi, Toru (1996). Temperature-controlled release property of phospholipid vesicles bearing a thermo-sensitive polymer. *Biochimica et Biophysica Acta (BBA) - Biomembranes* 1280: 127-134.

Rejection Code: METHODS.

502. Hayashi, S. A., Meier, K. H., DeLaney, A., and Olson, K. R. (2004). Delayed Severe Toxicity from Intentional Subcutaneous Injection of Diazinon. *Journal of Toxicology: Clinical Toxicology [J. Toxicol.: Clin. Toxicol.]. Vol. 42, no. 4, p. 515. Jun 2004.*Rejection Code: HUMAN HEALTH, INCIDENT.

503. Headlam, Madeleine J., Wilce, Matthew C. J., and Tuckey, Robert C. (2003). The F-G loop region of cytochrome P450scc (CYP11A1) interacts with the phospholipid membrane. *Biochimica et Biophysica Acta (BBA) - Biomembranes* 1617: 96-108.

Rejection Code: METHODS.

504. Hebden, S. P. and O'Neill, D. K (1967). Sheep dips. II. Effect of use and aging on diazinon alone and on a diazinon-lime sulfur mixture. *Australian Veterinary Journal 43* 73-8.

<u>Rejection Code</u>: FATE.

505. Heikinheimo, Liisa and Somerharju, Pentti (2002). Translocation of pyrene-labeled phosphatidylserine from the plasma membrane to mitochondria diminishes systematically with molecular hydrophobicity: implications on the maintenance of high phosphatidylserine content in the inner leaflet of the plasma membrane. *Biochimica et Biophysica Acta (BBA) - Molecular Cell Research* 1591: 75-85.

Rejection Code: METHODS.

506. Heinicke, D. R. and Foott, J. W. (1966). The Effect of Several Phosphate Insecticides on Photosynthesis of Red Delicious Apple Leaves. *Can.J.Plant Sci.* 46: 589-591.

; Habitat: T; Effect Codes: PHY

507. Hela, D. G., Lambropoulou, D. A., Konstantinou, I. K., and Albanis, T. A. (2005). Environmental monitoring and ecological risk assessment for pesticide contamination and effects in Lake

Pamvotis, northwestern Greece. *Environmental Toxicology and Chemistry [Environ. Toxicol. Chem.]. Vol. 24, no. 6, pp. 1548-1556. Jun 2005.*Rejection Code: SURVEY.

- 508. Hemmerlin, Andrea, Reents, Reinhard, Mutterer, Jerome, Feldtrauer, Jean-Francois, Waldmann, Herbert, and Bach, Thomas J. (2006). Monitoring farnesol-induced toxicity in tobacco BY-2 cells with a fluorescent analog: Highlight Issue on Plant Terpene Biochemistry Honoring Rod Croteau. *Archives of Biochemistry and Biophysics* 448: 93-103.

  Rejection Code: NO COC.
- 509. Henderson, M. and Kitos, P. A. (1982). Do Organophosphate Insecticides Inhibit the Conversion of Tryptophan to Nad+ in Ovo? *Teratology* 26: 173-181.
  - ; Habitat: T; Effect Codes: GRO
- 510. Hendriks, A. J., Pieters, H., and De Boer, J. (1998). Accumulation of Metals, Polycyclic (Halogenated)
  Aromatic Hydrocarbons, and Biocides in Zebra Mussel and Eel from the Rhine and Meuse Rivers. *Environ.Toxicol.Chem.* 17: 1885-1898.

  <u>Rejection Code</u>: NO DURATION/SURVEY.
- 511. Hendriks, A. J. and Stouten, M. D. A. (1993). Monitoring the Response of Microcontaminants by Dynamic Daphnia magna and Leuciscus idus Assays in the Rhine Delta: Biological Early Warning as a Useful Supplement. *Ecotoxicol.Environ.Saf.* 26: 265-279.
  - ; Habitat: A; Effect Codes: BEH,MOR
- 512. HENDRIKS AJ, PIETERS, H., and DE BOER J (1998). Accumulation of metals, polycyclic (halogenated) aromatic hydrocarbons, and biocides in zebra mussel and eel from the Rhine and Meuse rivers. ENVIRONMENTAL TOXICOLOGY AND CHEMISTRY; 17 1885-1898.

  Rejection Code: SURVEY.
- 513. Henzell, R. F., Skinner, R. A., and Clements, R. O. (1983). Insecticides for Control of Adult Grass Grub, Costelytra zealandica (White). V. Screening and Behaviour of Insecticides in Soil Bioassays. *N.Z.J.Agric.Res.* 26: 129-133.
  - ; Habitat: T; Effect Codes: MOR
- 514. HEONG KL, ESCALADA MM, and MAI VO (1994). An analysis of insecticide use in rice: Case studies in the Philippines and Vietnam. *INTERNATIONAL JOURNAL OF PEST MANAGEMENT*; 40 173-178.

  Rejection Code: SURVEY.
- 515. HERKIMER, M., KINNEAR, D., KRAUTH, P., LOADER, K., OKEY, R., RAWLINGS, L., and REYNOLDS, F. (1998). BIOMONITORING. *WATER ENVIRONMENT RESEARCH; 70* 954-962.

  Rejection Code: REVIEW, NO TOX DATA.
- 516. HESS TF, BUYUKSONMEZ, F., WATTS RJ, and TEEL AL (1998). ASSESSMENT MANAGEMENT AND MINIMIZATION. *WATER ENVIRONMENT RESEARCH*; 70 699-705. Rejection Code: REVIEW, NO TOX DATA.
- 517. Hidaka, H., Hattanda, M., and Tatsukawa, R. (1984). Avoidance of Pesticides with Medakas (Oryzias latipes). *J.Agric.Chem.Soc.Jpn.(Nippon Nogeikagaku Kaishi)* 58: 145-151 (JPN) (ENG ABS).
  - ; Habitat: A; Effect Codes: BEH

- 518. Hildesheim, Jean, Cleophax, Janine, Sepulchre, Anne-Marie, and Gero, Stephan D. (1969). Deplacements en serie methyl furanoside. Synthese de derives du 2,3,5-triamino-2,3,5-tridesoxy--arabinose et --xylose. *Carbohydrate Research* 9: 315-322.

  <u>Rejection Code</u>: METHODS.
- 519. HILL DL, HALL CI, SANDER JE, FLETCHER OJ, PAGE RK, and DAVIS SW (1994). Diazinon toxicity in broilers. *AVIAN DISEASES*; *38* 393-396. Rejection Code: INCIDENT.
- 520. Hill, E. (1995). Organophosphorus and Carbamate Pesticides. *In: D.J.Hoffman, B.A.Rattner, G.A.Burton, Jr.*, and J.Cairns, Jr. (Eds.), Handbook of Ecotoxicology, Lewis Publ., Boca Raton, FL 243-275.

  Rejection Code: NO TOX DATA.
- 521. Hill, S., Hough, L., and Richardson, A. C. (1968). Nucleophilic replacement reactions of sulphonates: Part I. The preparation of derivatives of 4,6-diamino-4,6-dideoxy--glucose and --galactose. *Carbohydrate Research* 8: 7-18.

  Rejection Code: METHODS.
- 522. Hiltibran, R. C. (1982). Effects of insecticides on the metal-activated hydrolysis of adenosine triphosphate by bluegill liver mitochondria. *Archives of Environmental Contamination and Toxicology. Vol.* 11, no. 6, pp. 709-717. 1982.

  Rejection Code: IN VITRO.
- 523. Hiltibran, R. C. (1982). Effects of Insecticides on the Metal-Activated Hydrolysis of Adenosine Triphosphate by Bluegill Liver Mitochondria. *Arch.Environ.Contam.Toxicol.* 11: 709-717. Rejection Code: IN VITRO.
- 524. Hiltibran, R. C. (1974). Oxygen and Phosphate Metabolism of Bluegill Liver Mitochondria in the Presence of Some Insecticides. *Trans.Ill.State Acad.Sci.* 67: 228-237.

  <u>Rejection Code</u>: IN VITRO/METABOLISM.
- 525. Hincha, D. K., Oliver, A. E., and Crowe, J. H. (1999). Lipid composition determines the effects of arbutin on the stability of membranes. *Biophysical Journal*, 77 (4) pp. 2024-2034, 1999. Rejection Code: METHODS.
- 526. Hirakoso, S. (1968). Inactivation of Some Insecticides by Bacteria in Mosquito Breeding Polluted Water. *Jpn.J.Exp.Med.* 38: 327-334.

  Rejection Code: BACTERIA.
- 527. Hirayama, K. and Tamanoi, S. (1980). Acute Toxicity of MEP and Diazinon (Pesticide) to Larvae of Kuruma Prawn Penaeus japonicus and of Swimming Crab Portunus trituberculatus. Bull.Jpn.Soc.Sci.Fish.(Nippon Suisan Gakkaishi) 13: 117-123 (JPN) (ENG ABS).
  - ; Habitat: A; Effect Codes: MOR
- 528. Hirose, K. and Kawakami, K. (1977). Effects of Insecticides, Oil Dispersants and Synthetic Detergent on the Embryonic Development in Medaka, Oryzias latipes. *Bull.Tokai Reg.Fish.Res.Lab.(Tokai-ku Suisan Kenkyusho Kenkyu Hokoku)* 91: 9-17 (JPN) (ENG ABS).
  - ; Habitat: A; Effect Codes: MOR, BEH
- 529. Hirose, K. and Kitsukawa, M. (1976). Acute Toxicity of Agricultural Chemicals to Seawater Teleosts, with Special Respect to TLM and the Vertebral Abnormality. *Bull.Tokai Reg.Fish.Res.Lab.(Tokai-Ku Suisan Kenkyusho Kenkyo Hokoku)* 84: 11-20 (JPN) (ENG ABS).

- ; Habitat: A; Effect Codes: MOR,GRO
- 530. Hirose, K., Yamazaki, M., and Ishikawa, A. (1979). Effects of Water Temperature on Median Lethal Concentrations (LC50) of a Few Pesticides to Seawater Teleosts. *Bull.Tokai Reg.Fish.Res.Lab.*(*Tokai-ku Suisan Kenkyusho Kenkyu Hokoku*) 98: 45-53 (JPN) (ENG ABS).
  - ; Habitat: A; Effect Codes: GRO, MOR
- 531. Hislop, R. G. and Prokopy, R. J. (1981). Integrated Management of Phytophagous Mites in Massachusetts (U.S.A.) Apple Orchards. 2. Influence of Pesticides on the Predator Amblyseius fallacis (Acarina: Phytoseiidae) Under Laboratory and Field Conditions. *Prot.Ecol.* 3: 157-172.
  - ; Habitat: T; Effect Codes: MOR, REP, POP
- 532. Hixon, Sharon C. and Danzey Burnham, A. (1979). Nuclear mutations and mitotic recombination in saccharomyces by light-activated ethidium azides. *Mutation Research/Genetic Toxicology* 66: 385-390.

  Rejection Code: YEAST.
- 533. Hoellinger, H., Sonnier, M., Gray, A. J., Connors, T. A., Pichon, J., and Nguyen-Hoang-Nam (1985). In vitro covalent binding of cismethrin, bioresmethrin, and their common alcohol to hepatic proteins. *Toxicology and Applied Pharmacology* 77: 11-18.

  Rejection Code: IN VITRO.
- 534. Hoffman, R. S., Capel, P. D., and Larson, S. J. (2000). Comparison of pesticides in eight U.S. urban streams. *Environmental Toxicology and Chemistry [Environ. Toxicol. Chem.]. Vol. 19*, no. 9, pp. 2249-2258. Aug 2000.

  Rejection Code: SURVEY.
- 535. Hogan, J. W. and Knowles, C. O. (1972). Metabolism of Diazinon by Fish Liver Microsomes. *Bull.Environ.Contam.Toxicol.* 8: 61-64. <u>Rejection Code</u>: IN VITRO/METABOLISM.
- 536. Hogsette, Jerome A., Prichard, David L., Ruff, Joseph P., and Jones, Carl J. (1991). Development of a refillable ear tag for control of horn flies (Diptera: Muscidae) on beef cattle. *Journal of Controlled Release* 15: 167-176.
  <u>Rejection Code</u>: METHODS.
- 537. HOLLAND JM and JEPSON PC (1996). Droplet dynamics and initial field tests for microencapsulated pesticide formulations applied at ultra low volume using rotary atomisers for control of locusts and grasshoppers. *PESTICIDE SCIENCE*; 48 125-134. Rejection Code: METHODS.
- 538. HOLMSTEDT, B. (1985). HISTORICAL DEVELOPMENT OF CARBAMATES. *THIRD SYMPOSIUM ON PROPHYLAXIS AND TREATMENT OF CHEMICAL POISONING, STOCKHOLM, SWEDEN, APR.* 22-24, 1985. FUNDAM APPL TOXICOL; 5 (6 PART 2). 1985 (RECD. 1986). S1-S9.

  Rejection Code: NO TOX DATA.
- 539. HOLSTEGE DM, SCHARBERG DL, TOR ER, HART LC, and GALEY FD (1994). A rapid multiresidue screen for organophosphorus, organochlorine, and N-methyl carbamate insecticides in plant and animal tissues. *JOURNAL OF AOAC INTERNATIONAL*; 77 1263-1274. Rejection Code: METHODS.

- 540. Homan, Reynold and Eisenberg, Moises (1985). A fluorescence quenching technique for the measurement of paramagnetic ion concentrations at the membrane/water interface. Intrinsic and X537A-mediated cobalt fluxes across lipid bilayer membranes. *Biochimica et Biophysica Acta (BBA) Biomembranes* 812: 485-492.

  Rejection Code: METHODS.
- 541. Hon-Cheng, C. (2001). Studies on Water Quality Criteria of Pesticides for Farming Black Tiger Shrimp Penaeus monodon. *Asian Fish.Forum, Nov.25-30, 2001, Kaohsiung, Taiwan*. Rejection Code: ABSTRACT.
- 542. Horowitz, Ann D. (1995). Exclusion of SP-C, but not SP-B, by gel phase palmitoyl lipids. *Chemistry and Physics of Lipids* 76: 27-39.

  Rejection Code: METHODS.
- 543. Horowitz, Ann D., Elledge, Barry, Whitsett, Jeffrey A., and Baatz, John E. (1992). Effects of lung surfactant proteolipid SP-C on the organization of model membrane lipids: A fluorescence study. *Biochimica et Biophysica Acta (BBA) Biomembranes* 1107: 44-54.

  Rejection Code: METHODS.
- 544. HORTON BJ, BEST DJ, BUTLER LG, and GREGORY GG (1997). Organophosphorus residues in wool grease resulting from specified on-farm lice and flystrike control treatments. *AUSTRALIAN VETERINARY JOURNAL*; 75 500-503.

  Rejection Code: NO TOX DATA.
- 545. Hough, L. and Mufti, K. S. (1972). Sucrochemistry: Part VI. Further reactions of 6,6′--O-tosylsucrose and a comparison of the reactivity at the 6 and 6′ positions. *Carbohydrate Research* 25: 497-503.

  Rejection Code: METHODS.
- 546. Hsiao Cheng-Ting, Yang Chen-Chang, Deng Jou-Fang, Bullard, M. J., and Liaw Shiumn-Jen (1996). Acute pancreatitis following organophosphate intoxication. *Journal of Toxicology: Clinical Toxicology [J. TOXICOL.: CLIN. TOXICOL.]. Vol. 34, no. 3, pp. 343-347. May 1996.*Rejection Code: HUMAN HEALTH.
- 547. Huang, T. H. Jackson, Yang, Dun-Sheng, Plaskos, Nicholas P., Go, Sandy, Yip, Christopher M., Fraser, Paul E., and Chakrabartty, Avijit (2000). Structural studies of soluble oligomers of the alzheimer [beta]-amyloid peptide. *Journal of Molecular Biology* 297: 73-87. Rejection Code: METHODS.
- 548. Huang, Zhengping, Pearce, Kenneth H., and Thompson, Nancy L. (1992). Effect of bovine prothrombin fragment 1 on the translational diffusion of phospholipids in Langmuir-Blodgett monolayers. *Biochimica et Biophysica Acta (BBA) Biomembranes* 1112: 259-265.

  Rejection Code: METHODS.
- 549. Hudson, R. H., Haegele, M. A., and Tucker, R. K. (1979). Acute Oral and Percutaneous Toxicity of Pesticides to Mallards: Correlations with Mammalian Toxicity Data. *Toxicol.Appl.Pharmacol.* 47: 451-460.
  - ; Habitat: T; Effect Codes: MOR
- 550. HUESKES, R. and LEVSEN, K. (1997). Pesticides in rain. *CHEMOSPHERE*; *35* 3013-3024. Rejection Code: SURVEY.
- 551. Hughes, P. B. (1982). Organophosphorus Resistance for the Sheep Blowfly, Lucilia cuprina (Wiedemann) (Diptera: Calliphoridae): A Genetic Study Incorporating Synergists. *Bull.Entomol.Res.* 72: 573-

- ; Habitat: T; Effect Codes: MOR
- 552. Hughes, P. B. and Devonshire, A. L. (1982). The Biochemical Basis of Resistance to Organophosphorus Insecticides in the Sheep Blowfly, Lucilia cuprina. *Pestic.Biochem.Physiol.* 18: 289-297.
  - ; Habitat: T; Effect Codes: ACC
- 553. Hughes, P. B. and Devonshire, A. L. (1982). The biochemical basis of resistance to organophosphorus insecticides in the sheep blowfly, Lucilia cuprina. *Pesticide Biochemistry and Physiology* 18: 289-297.

  Rejection Code: METABOLISM.
- 554. Hunt, J. W., Anderson, B. S., Phillips, B. M., Nicely, P. N., Tjeerdema, R. S., Puckett, H. M., Stephenson, M., Worcester, K., and De Vlaming, V. (2003). Ambient toxicity due to chlorpyrifos and diazinon in a central California coastal watershed. *Environmental Monitoring and Assessment [Environ. Monit. Assess.]. Vol. 82, no. 1, pp. 83-112. 11 Feb 2003*.
  Rejection Code: MIXTURE.
- 555. Hunt, John W., Anderson, Brian S., Phillips, Bryn M., Tjeerdema, Ron S., Puckett, H. Max, and deVlaming, Victor (1999). Patterns of aquatic toxicity in an agriculturally dominated coastal watershed in California. *Agriculture, Ecosystems & Environment* 75: 75-91. Rejection Code: SURVEY.
- 556. Hunter, R. S. and Culver, F. D. (1988). QSAR Sysytem User Manual. A Structure-Activity Based Chemical Modeling and Information System. *Inst.for Biological and Chemical Process Analysis, Montana State Univ., Bozeman, MT* I1-R5.

  Rejection Code: MODELING/QSAR.
- 557. HURTO KA (1992). DISSIPATION OF TOTAL AND DISLODGEABLE RESIDUES OF PESTICIDES FOLLOWING APPLICATION TO TURFGRASS. 203RD ACS (AMERICAN CHEMICAL SOCIETY) NATIONAL MEETING, SAN FRANCISCO, CALIFORNIA, USA, APRIL 5-10, 1992. ABSTR PAP AM CHEM SOC; 203 (1-3). 1992. AGRO75.

  Rejection Code: FATE.
- 558. HURTO KA and PRINSTER MG (1993). DISSIPATION OF TURFGRASS FOLIAR DISLODGEABLE RESIDUES OF CHLORPYRIFOS DCPA DIAZINON ISOFENPHOS AND PENDIMETHALIN. RACKE, K. D. AND A. R. LESLIE (ED.). ACS SYMPOSIUM SERIES, 522. PESTICIDES IN URBAN ENVIRONMENTS: FATE AND SIGNIFICANCE; 203RD NATIONAL MEETING OF THE AMERICAN CHEMICAL SOCIETY, SAN FRANCISCO, CALIFORNIA, USA, APRIL 5-10, 1992. XII+378P. AMERICAN CHEMICAL SOCIETY: WASHINGTON, DC, USA. ISBN 0-8412-2627-X.; 0 (0). 1993. 86-99. Rejection Code: FATE.
- 559. Hutchings, M., Johnson, I., Hayes, E., Girling, A. E., Thain, J., Thomas, K., Benstead, R., Whale, G., Wordon, J., Maddox, R., and Chown, P. (2004). Toxicity Reduction Evaluation, Toxicity Identification Evaluation and Toxicity Tracking in Direct Toxicity Assessment. *Ecotoxicology [Ecotoxicology]. Vol. 13, no. 5, pp. 475-484. Jul 2004.*Rejection Code: SURVEY.
- 560. Ibrahim, M. M., Ichikawa, Kazuhiko, and Shiro, Motoo (2003). Solution studies of N′,N″,N″′-tris(3-aminopropyl)amine-based zinc(II) complexes and X-ray crystal structures of [Zn(trpn)](ClO4)2 and [Zn(trpn)(DETP)]ClO4, DETP-=O,O-diethyl thiophospate. Catalytic activity of the complexes in the hydrolysis of the phosphotriester 2,4-

- dinitrophenyl diethyl phosphate. *Inorganica Chimica Acta* 353: 187-196. Rejection Code: METHODS.
- 561. IGLESIAS-JIMENEZ, E., POVEDA, E., SANCHEZ-MARTIN MJ, and SANCHEZ-CAMAZANO, M. (1997). Effect of the nature of exogenous organic matter on pesticide sorption by the soil. ARCHIVES OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY; 33 117-124. Rejection Code: FATE.
- 562. Iglesias-Jimenez, E., Sanchez-Martin, M. J., and Sanchez-Camazano, M. (1996). Pesticide adsorption in a soil-water system in the presence of surfactants. *Chemosphere* 32: 1771-1782. Rejection Code: FATE.
- 563. Iglesias-Jiminez, E., Poveda, E., Sanchez-Martin, M. J., and Sanchez-Camazano, M. (1997). Effect of the Nature of Exogenous Organic Matter on Pesticide Sorption by the Soil. *Arch.Environ.Contam.Toxicol.* 33: 117-124.

  <u>Rejection Code</u>: NO TOX DATA.
- 564. Ikeda, Takanori, Tsuda, Shuji, and Shirasu, Yasuhiko (1991). Metabolic induction of the hepatic cytochrome P450 system by chlorfenvinphos in rats. Fundamental and Applied Toxicology 17: 361-367.
  Rejection Code: NO COC.
- 565. Illinger, Dominique, Duportail, Guy, Mely, Yves, Poirel-Morales, Nathalie, Gerard, Dominique, and Kuhry, Jean-Georges (1995). A comparison of the fluorescence properties of TMA-DPH as a probe for plasma membrane and for endocytic membrane. *Biochimica et Biophysica Acta (BBA) Biomembranes* 1239: 58-66.

  Rejection Code: METHODS.
- 566. Ingham, E. R. (1985). Review of the effects of 12 selected biocides on target and non-target soil organisms. *Crop Protection* 4: 3-32.

  Rejection Code: REVIEW.
- 567. Ingram, W. M. & Tarzwell, C. M. Selected Bibliography of Publications Relating to Undesirable Effects Upon Aquatic Life by Algicides, Insecticides, Weedicides. U.S.Dep.Health,Education,and Welfare, Public Health Service, June, 1954, Cincinnati, OH, 28 p. 1955.

  Rec #: 902

  Keywords: REVIEW
- 568. Ioannou, Y. M. and Dauterman, W. C. (1979). In vitro metabolism of diazinon and etrimfos by corn plant preparations. *Pesticide Biochemistry and Physiology* 10: 212-218. Rejection Code: METABOLISM.
- 569. Ioannou, Y. M. and Dauterman, W. C. (1979). In vitro metabolism of etrimfos by house flies. *Pesticide Biochemistry and Physiology* 10: 31-39.

  <u>Rejection Code</u>: IN VITRO.
- 570. Ioannou, Yiannakis M., Dauterman, Walter C., and Tucker, William P. (1980). Degradation of diazinon by 2,4-dihydroxy-7-methoxy-2h-1, 4-benzoxazin-3(4h)-one in maize. *Phytochemistry* 19: 1607-1611.

  Rejection Code: METABOLISM.
- 571. Iriarte Capaccio, Christian A. and Varela, Oscar (2000). Enantiospecific synthesis of a glycoside of -epipurpurosamine. *Tetrahedron: Asymmetry* 11: 4945-4954. Rejection Code: METHODS.

572. Ishiwata, Shigemasa and Kamiya, Mamoru (1999). Cyclodextrin inclusion: catalytic effects on the degradation of organophosphorus pesticides in neutral aqueous solution. *Chemosphere* 39: 1595-1600.

Rejection Code: FATE.

573. Itoh, Toyofumi, Hisada, Hiroyuki, Usui, Yoshiharu, and Fujii, Yuki (1998). Hydrolysis of phosphate esters catalyzed by copper(II)-triamine complexes. The effect of triamine ligands on the reactivity of the copper(II) catalysts. *Inorganica Chimica Acta* 283: 51-60.

Rejection Code: METHODS.

574. Iverson, F., Grant, D. L., and Lacroix, J. (1975). Diazinon Metabolism in the Dog. *Bull.Environ.Contam.Toxicol.* 13: 611-618.

; Habitat: T; Effect Codes: BCM, ACC

- 575. Iyaniwura, T. T. (1990). In vitro toxicology of organophosphorus pesticide combinations. *In Vitro Toxicology [IN VITRO TOXICOL.]. Vol. 3, no. 4, pp. 373-377. 1990.*Rejection Code: IN VITRO.
- 576. Jaaskelainen, Ilpo, Monkkonen, Jukka, and Urtti, Arto (1994). Oligonucleotide-cationic liposome interactions. A physicochemical study. *Biochimica et Biophysica Acta (BBA) Biomembranes* 1195: 115-123.
   Rejection Code: METHODS.
- 577. Jabbari, Esmaiel and Khakpour, Maziar (2000). Morphology of and release behavior from porous polyurethane microspheres. *Biomaterials* 21: 2073-2079.

  <u>Rejection Code</u>: METHODS.
- 578. Jackson, D. M. and Lam, J. J. Jr. (1989). Jalysus wickhami (Hemiptera: Berytidae): Toxicity of Pesticides Applied to the Soil or in the Transplant Water of Flue-Cured Tobacco. *J.Econ.Entomol.* 82: 913-918.
- 579. JACOBS RM and YESS NJ (1993). Survey of imported green coffee beans for pesticide residues. *FOOD ADDIT CONTAM*; 10 575-577.

  Rejection Code: SURVEY.
- 580. Jacoby, P. W., Slosser, J. E., and Meadors, C. H. (1983). Vegetational responses following control of sand shinnery oak with tebuthiuron. *Journal of Range Management. Vol. 36, no. 4, pp. 510-512. 1983.*Rejection Code: NO COC.
- 581. JAMAL GA (1997). NEUROLOGICAL SYNDROMES OF ORGANOPHOSPHORUS COMPOUNDS. *ADVERSE DRUG REACTIONS AND TOXICOLOGICAL REVIEWS*; 16 133-170.

  <u>Rejection Code</u>: REVIEW.
- 582. James, D. G. (2003). Pesticide Susceptibility of Two Coccinellids (Stethorus punctum picipes and Harmonia axyridis) Important in Biological Control of Mites and Aphids in Washington Hops. *Biocontrol Sci.Technol.* 13: 253-259.

; Habitat: T; Effect Codes: MOR

583. James, D. G. and Rayner, M. (1995). Toxicity of Viticultural Pesticides to the Predatory Mites Amblyseius victoriensis and Typhlodromus doreenae. *Plant Prot.Q.* 10: 99-102.

; Habitat: T; Effect Codes: MOR

- 584. James, P. J., Mitchell, H. K., Cockrum, K. S., and Ancell, P. M. C. (1994). Controlled release insecticide devices for protection of sheep against head strike caused by Lucilia cuprina. *Veterinary Parasitology* 52: 113-128.

  <u>Rejection Code</u>: MIXTURE.
- 585. Jamnback, H. and Frempong-Boadu, J. (1966). Testing Blackfly Larvicides in the Laboratory and in Streams. *Bull.W.H.O.* 34: 405-421.
  - ; Habitat: A; Effect Codes: BEH,POP
- 586. Jeffery, John C., Liard, Davina J., and Ward, Michael D. ( A very strong metal-metal interaction in a dinuclear ruthenium(II) complex with the dianion of 2,3-dihydroxy-but-2-enal as a compartmental bridging ligand. *Inorganica Chimica Acta* 251: 9-12.

  Rejection Code: METHODS.
- 587. Jenkins, D., Klein, S. A., Yang, M. S., Wagenet, R. J., and Biggar, J. W. (1978). The Accumulation, Translocation and Degradation of Biocides at Land Wastewater Disposal Sites: the Fate of Malathion, Carbaryl, Diazinon and 2,4-D Butoxyethyl Ester. *Water Res.* 12: 713-723. Rejection Code: NO SPECIES.
- 588. Jenkins, David, Klein, Stephen A., Yang, M. S., Wagenet, R. J., and Biggar, James W. (1978). The accumulation, translocation and degradation of biocides at land wastewater disposal sites: the fate of malathion, carbaryl, diazinon and 2,4-D butoxyethyl ester. *Water Research* 12: 713-723. Rejection Code: FATE.
- 589. Jensen, I. H. and Bile, N. (1993). Scientific and Technical Work. 6. Flies. *Dan.Pest Infest.Lab.Annu.Rep.* 1992: 36-85.

  Rejection Code: ABSTRACT/REVIEW.
- Jensen, I. H. and Bile, N. (1993). Scientific and Technical Work. 6. Flies. *Dan.Pest Infest.Lab.Annu.Rep.* 1992: 36-85.
   Rejection Code: ABSTRACT/REVIEW.
- 591. Jensen, I. H. and Bile, N. (1994). Scientific and Technical Work. 6. Flies. *Dan.Pest Infest.Lab.Annu.Rep.* 1993: 35-74.

  <u>Rejection Code</u>: ABSTRACT/REVIEW.
- 592. Jensen, I. H. and Bile, N. (1994). Scientific and Technical Work. 6. Flies. *Dan.Pest Infest.Lab.Annu.Rep.* 1993: 35-74.

  <u>Rejection Code</u>: ABSTRACT/REVIEW.
- 593. Jensen, I. H. and Bile, N. (1995). Scientific and Technical Work. 6. Flies. *Dan.Pest Infest.Lab.Annu.Rep.* 1994: 35-80.

  Rejection Code: REVIEW.
- 594. Jensen, I. H. and Bile, N. (1995). Scientific and Technical Work. 6. Flies. *Dan.Pest Infest.Lab.Annu.Rep.* 1994: 35-80.

  Rejection Code: REVIEW.
- 595. Jensen, I. H. and Bile, N. (1996). Scientific and Technical Work. 6. Flies. *Dan.Pest Infest.Lab.Annu.Rep.* 1995: 37-71.

  Rejection Code: REVIEW.
- 596. JENSEN IH and BILE, N. (1996). DANISH PEST INFESTATION LABORATORY ANNUAL REPORT 1995. DANISH PEST INFESTATION LABORATORY ANNUAL REPORT; 1995 I-II, 1-85.

## Rejection Code: REVIEW.

- 597. Jeong, T. a. e. Cheon, Jordan, S. D., Matulka, R. A., Stanulis, E. D., Kaminski, E. J., and Holsapple, M. P.
   \*. (1995). Role of metabolism by esterase and cytochrome P-450 in cocaine-induced suppression of the antibody response. *Journal of Pharmacology and Experimental Therapeutics [J. PHARMACOL. EXP. THER.]. Vol. 272, no. 1, pp. 407-416. 1995.* Rejection Code: MIXTURE.
- 598. Johnen, B. G. (1978). Rhizosphere microorganisms and roots stained with europium chelate and fluorescent brightener. *Soil Biology and Biochemistry* 10: 495-502.

  <u>Rejection Code</u>: METHODS.
- 599. Johnson, R., Tietge, J., Stokes, G., and Lothenbach, D. (1993). The Medaka Carcinogenesis Model. *In:*Tech.Rep.9306, Compendium of the FY1988 & FY1989 Res.Rev.for the Res.Methods Branch,

  U.S.Army Biomedical Res. & Dev.Lab., Ft.Detrick, Frederick, MD 147, 172 (U.S.NTIS AD-A272667).
  - ; Habitat: A; Effect Codes: MOR, CEL, GRO
- 600. Johnson, W. W. and Finley, M. T. (1980). Handbook of Acute Toxicity of Chemicals to Fish and Aquatic Invertebrates. *Resour.Publ.137*, Fish Wildl.Serv., U.S.D.I., Washington, D.C 98 p. (OECDG Data File) (Publ As 6797).
  Rejection Code: NO PUBL AS(BS).
- 601. Johnston, G. (1995). The Study of Interactive Effects of Pollutants: A Biomarker Approach. *Sci. Total Environ.* 171: 205-212.
  - ; Habitat: T; Effect Codes: BCM
- 602. Johnston, G., Walker, C. H., and Dawson, A. (1994). Interactive Effects Between EBI Fungicides (Prochloraz, Propiconazole and Penconazole) and OP Insecticides (Dimethoate, Chlorpyrifos, Diazinon and Malathion) in the Hybrid Red-Legged Partridge. *Environ.Toxicol.Chem.* 13: 615-620.
  - ; Habitat: T; Effect Codes: BCM
- 603. Johnston, G., Walker, C. H., and Dawson, A. (1994). Interactive effects between EBI fungicides (prochloraz, propiconazole and penconazole) and OP insecticides (dimethoate, chlorpyrifos, diazinon and malathion) in the hybrid red-legged partridge. *Environmental Toxicology and Chemistry [ENVIRON. TOXICOL. CHEM.]. Vol. 13, no. 4, pp. 615-620. 1994*. Rejection Code: MIXTURE.
- 604. Jokanovic, M. and Maksimovic, M. (1995). A Comparison of Trimedoxime, Obidoxime, Pralidoxime and HI-6 in the Treatment of Oral Organophosphorus Insecticide Poisoning in the Rat. *Arch.Toxicol.* 70: 119-123.
  - ; Habitat: T; Effect Codes: MOR
- 605. Jonas, R., Klockow, M., Lues, I., and Wurziger, H. (1994). Stereoselectivity of the positive inotropic effects of newer diazinone-cardiotonics. *Bioorganic & Medicinal Chemistry Letters* 4: 2585-2588.

  Rejection Code: METHODS.
- 606. JONES FW and WESTMORELAND DJ (1999). Removal of wool wax, nonylphenol ethoxylates and pesticide residues from wool scour effluent. *WATER RESEARCH*; 33 1775-1780.

- Rejection Code: EFFLUENT.
- 607. Jones, K. H., Sanderson, D. M., and Noakes, D. N. (1968). Acute Toxicity Data for Pesticides (1968). World Rev. Pest Control 7: 135-143.
  - ; Habitat: T; Effect Codes: MOR
- 608. Jones, Simon and Selitsianos, Dimitrios (2005). Stereochemical consequences of the use of chiral N-phosphoryl oxazolidinones in the attempted kinetic resolution of bromomagnesium alkoxides. *Tetrahedron: Asymmetry* 16: 3128-3138.

  Rejection Code: METHODS.
- 609. Joyce, B. A., Wallender, W. W., Angermann, T., Wilson, B. W., Werner, I., Oliver, M. N., Zalom, F. G., and Henderson, J. D. (2004). Using infiltration enhancement and soil water management to reduce diazinon in runoff. *Journal of the American Water Resources Association [J. Am. Water Resour. Assoc.]. Vol. 40, no. 4, pp. 1063-1070. Aug 2004.*Rejection Code: FATE.
- 610. Jubb, G. L. Jr. (1984). Patterns of Pesticide Use on 'Concord' Grapes in Erie County, Pennsylvania: 1970-1982. *Melsheimer Entomol.Ser.* 34: 1-11.

  <u>Rejection Code</u>: NO TOX DATA.
- 611. Julien, Michel, Millot, Claire, Tocanne, Jean-Francois, and Tournier, Jean-Francois (1997). 12-O-Tetradecanoylphorbol-13-Acetate Inhibits Aminophospholipid Translocase Activity and Modifies the Lateral Motions of Fluorescent Phospholipid Analogs in the Plasma Membrane of Bovine Aortic Endothelial Cells. *Experimental Cell Research* 234: 125-131.

  Rejection Code: IN VITRO.
- 612. Kabir, S. M. H. and Ahmed, N. (1979). Histopathological Changes in Climbing Perch, Anabas testudineus (Bloch) (Anabantidae: Perciformes) due to Three Granular Insecticides. *Bangladesh J.Zool.* 7: 21-29.
  - ; Habitat: A; Effect Codes: CEL,PHY
- 613. Kabir, S. M. H. and Begum, R. (1978). Toxicity of Three Organophosphorus Insecticides to Shinghi Fish, Heteropneustes fossilis (Bloch). *Dacca.Univ.Stud.Part B* 26: 115-122.
  - ; Habitat: A; Effect Codes: BEH,MOR,CEL
- 614. Kaiser, K. L. E., Niculescu, S. P., and Schuurmann, G. (1997). Feed Forward Backpropagation Neural Networks and Their Use in Predicting the Acute Toxicity of Chemicals to the Fathead Minnow. *Water Qual.Res.J.Can.* 32: 637-657.

  Rejection Code: QSAR.
- 615. Kalb, Edwin, Frey, Sammy, and Tamm, Lukas K. (1992). Formation of supported planar bilayers by fusion of vesicles to supported phospholipid monolayers. *Biochimica et Biophysica Acta (BBA) Biomembranes* 1103: 307-316.

  Rejection Code: METHODS.
- 616. Kalender, Yusuf, Uzunhisarcikli, Meltem, Ogutcu, Ayse, Acikgoz, Fatma, and Kalender, Suna (Effects of diazinon on pseudocholinesterase activity and haematological indices in rats: The protective role of Vitamin E. *Environmental Toxicology and Pharmacology* In Press, Corrected Proof. Rejection Code: NO SOURCE.
- 617. Kalibabchuk, V. A. (1980). Spectroscopic study of the electronic structure and donor-acceptor properties of

- substituted ortho-naphthaquinone diazides. *Journal of Molecular Structure* 61: 369-372. Rejection Code: METHODS.
- 618. Kalmanzon, Eliahu, Zlotkin, Eliahu, Cohen, Rivka, and Barenholz, Yechezkel (1992). Liposomes as a model for the study of the mechanism of fish toxicity of sodium dodecyl sulfate in sea water. *Biochimica et Biophysica Acta (BBA) - Biomembranes* 1103: 148-156.

  Rejection Code: METHODS.
- 619. Kamha, A. A., Al Omary, I. Y. M., Zalabany, H. A., Hanssens, Y., and Adheir, F. S. (2005).

  Organophosphate Poisoning in Pregnancy: A Case Report. *Pharmacology & Toxicology [Pharmacol. Toxicol.]. Vol. 95, no. 5, pp. 397-398. May 2005.*Rejection Code: HUMAN HEALTH.
- 620. KAMIYA, M. and KAMEYAMA, K. (1998). Photochemical effects of humic substances on the degradation of organophosphorus pesticides. *CHEMOSPHERE*; *36* 2337-2344. Rejection Code: FATE.
- 621. Kanazawa, J. (1981). Bioconcentration Potential of Pesticides by Aquatic Organisms. *Jpn.Pestic.Inf.* 39: 12-74.
  - ; Habitat: A; Effect Codes: ACC,GRO
- 622. Kanazawa, J. (1978). Bioconcentration Ratio of Diazinon by Freshwater Fish and Snail. *Bull.Environ.Contam.Toxicol.* 20: 613-617.
  - ; Habitat: A; Effect Codes: ACC
- 623. Kanazawa, J. (1983). In Vitro and In Vivo Effects of Organophosphorus and Carbamate Insecticides on Brain Acetylcholinesterase Activity of Fresh-Water Fish, Topmouth gudgeon. *Bull.Natl.Inst.Agric.Sci.Sect.C* 37: 19-30.
  - ; Habitat: A; Effect Codes: BCM, MOR, BEH, PHY
- 624. Kanazawa, J. (1981). Measurement of the Bioconcentration Factors of Pesticides by Freshwater Fish and Their Correlation with Physicochemical Properties or Acute Toxicities. *Pestic.Sci.* 12: 417-424.
  - ; Habitat: A; Effect Codes: MOR, ACC
- 625. Kanazawa, J. (1983). A Method of Predicting the Bioconcentration Potential of Pesticides by Using Fish. J.A.R.Q.(Jpn.Agric.Res.Q.) 17: 173-179.
  - ; Habitat: A; Effect Codes: ACC, BCM, PHY
- 626. Kanazawa, J. (1980). Prediction of Biological Concentration Potential of Pesticides in Aquatic Organisms. *Rev.Plant Prot.Res.* 13: 27-74.
  - ; Habitat: A; Effect Codes: ACC, MOR
- 627. Kanazawa, J. (1982). Relationship Between the Molecular Weights of Pesticides and Their Bioconcentration Factors by Fish. *Experientia (Basel)* 38: 1045-1046. Rejection Code: REFS CHECKED/REVIEW.
- 628. Kanazawa, J. (1975). Uptake and excretion of organophosphorus and carbamate insecticides by fresh water fish, Motsugo, Pseudorasbora parva. *Bull. Environ. Contam. Toxicol. Vol. 14, no. 3, pp. 346-352.* 1975.

- Rejection Code: METABOLISM.
- 629. KANG J-W, PARK H-S, WANG R-Y, KOGA, M., KODOKAMI, K., KIM H-Y, LEE E-T, and OH S-M (1997). Effect of ozonation for treatment of micropollutants present in drinking water source. WATER SCIENCE AND TECHNOLOGY; 36 299-307.

  Rejection Code: METHODS.
- 630. Kano, R., Lok, C. K., Hayashi, A., and Shinonaga, S. (1978). Resistant Level of Houseflies to Seven Kinds of Synthetic Insecticides and Effect of Synergists to the Malathion Resistant Strain in Singapore. *Bull.Tokyo Med.Dent.Univ.* 25: 143-146.
  - ; Habitat: T; Effect Codes: MOR
- 631. Kao, Chao-Hsing and Sun, Chih-Ning (1991). In vitro degradation of some organophosphorus insecticides by susceptible and resistant diamondback moth. *Pesticide Biochemistry and Physiology* 41: 132-141. Rejection Code: METABOLISM.
- 632. Kappagoda, C. T., Campbell, H. C., Ravi, K., Bravo, E., and Bonham, A. C. (1996). The Effect of Diazinon Plus on Rapidly Adapting Receptors in the Rabbit. 26th annual meeting of the society for neuroscience, washington, d.c., Usa, november 16-21, 1996. Society for neuroscience abstracts 22: 1807.

  Rejection Code: ABSTRACT.
- 633. Kappers, W. A., Edwards, R. J., Murray, S., and Boobis, A. R. (2001). Diazinon Is Activated by CYP2C19 in Human Liver. *Toxicology and Applied Pharmacology [Toxicol. Appl. Pharmacol.]. Vol. 177, no. 1, pp. 68-76. 15 Nov 2001.*Rejection Code: HUMAN HEALTH.
- 634. KARAM, J. and NICELL JA (1997). Potential applications of enzymes in waste treatment. *JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY*; 69 141-153.

  <u>Rejection Code</u>: METHODS.
- 635. Karczmar, A. G., Koketsu, K., and Soeda, S. (1968). Possible reactivating and sensitizing action of neuromyally acting agents. *Neuropharmacology* 7: 241-252.

  <u>Rejection Code</u>: IN VITRO.
- 636. Karlstrom, Amelie and Nygren, Per-Ake (2001). Dual Labeling of a Binding Protein Allows for Specific Fluorescence Detection of Native Protein. *Analytical Biochemistry* 295: 22-30.

  <u>Rejection Code</u>: METHODS.
- 637. Karsouh, A. S. H. and Hopkins, T. L. (1968). Diazinon Absorption, Translocation, and Metabolism in Bean Plants. *J.Agric.Food Chem.* 16: 446-450.
  - ; Habitat: T; Effect Codes: ACC
- 638. KASHEM MA and MIAN AJ (1993). Rice husk as a carrier for granular pesticides. *DHAKA UNIV STUD PART B SCI*; 41 103-106.

  Rejection Code: METHODS.
- 639. Kasiotis, Konstantinos M., Mendorou, Christina, Haroutounian, Serkos A., and Alexis, Michael N. (2006). High affinity 17[alpha]-substituted estradiol derivatives: Synthesis and evaluation of estrogen receptor agonist activity. *Steroids* 71: 249-255.

  Rejection Code: METHODS.

- 640. KATAYAMA, A. and KUWATSUKA, S. (1991). Effect of pesticides on cellulose degradation in soil under upland and flooded conditions.

  <u>Rejection Code</u>: FATE.
- 641. KATHEIN, R. (1986). THE DEVELOPMENT OF POULTRY SLAUGHTER AND POULTRY MEAT INSPECTION IN ISRAEL A REVIEW. *ISR J VET MED*; 42 146-157.

  <u>Rejection Code</u>: NO TOX DATA.
- 642. Kato, T., Ogiso, T., Kato, K., Sano, M., Hasegawa, R., Shirai, T., and Ito, N. (1995). Lack of promoting activity of four pesticides on induction of preneoplastic liver cell foci in rats. *Teratogenesis, Carcinogenesis and Mutagenesis [TERATOG. CARCINOG. MUTAG.]. Vol. 15, no. 5, pp. 251-257. 1995.*Rejection Code: MIXTURE.
- 643. Katragadda, Suresh, Talluri, Ravi S., and Mitra, Ashim K. (Simultaneous modulation of transport and metabolism of acyclovir prodrugs across rabbit cornea: An approach involving enzyme inhibitors. *International Journal of Pharmaceutics* In Press, Corrected Proof.

  Rejection Code: HUMAN HEALTH.
- 644. Kaufman, D. D. (1977). Biodegradation and persistence of several acetamide, acylanilide, azide, carbamate, and organophosphate pesticide combinations. *Soil Biology and Biochemistry* 9: 49-57.
  Rejection Code: FATE.
- 645. Kawai, S., Fukushima, M., Tsuchinaga, T., and Oda, K. (1984). Metals and Synthetic Organic Compounds in Plankton from the Estuary and Harbor Area in Osaka City. *Bull.Jpn.Soc.Sci.Fish.(Nippon Suisan Gakkaishi)* 50: 1777-1783.

  <u>Rejection Code</u>: NO DURATION/SURVEY.
- 646. KAWATA, K., MUKAI, H., TANABE, H., and YASUHARA, A. (1996). ANNUAL VARIATION OF INSECTICIDES IN PRECIPITATION IN RURAL JAPAN. *BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY; 57* 853-858.

  <u>Rejection Code</u>: SURVEY.
- 647. Keizer, J., D' Agostino, G., Nagel, R., Volpe, T., Gnemi, P., and Vittozzi, L. (1995). Enzymological Differences of AChE and Diazinon Hepatic Metabolism: Correlation of In Vitro Data with the Selective Toxicity of Diazinon to Fish Species. *Sci.Total Environ.* 171: 213-220.

  Rejection Code: IN VITRO/METABOLISM.
- 648. Keizer, J., D'Agostino, G., Nagel, R., Volpe, T., Gnemi, P., Vittozzi, L. \*., and Vittozzi, L. (ed) (1995).

  Enzymological differences of AChE and diazinon hepatic metabolism: Correlation of in vitro data with the selective toxicity of diazinon to fish species.

  Rejection Code: IN VITRO.
- 649. Kelch, W. J. and New, J. C. Jr. (1993). The Reported Use of Drugs to Prevent Diseases in Beef Cattle in Tennessee. *Prev.Vet.Med.* 15: 291-302.
  - ; Habitat: T; Effect Codes: PHY
- 650. Kenaga, E. E. (1982). Predictability of Chronic Toxicity from Acute Toxicity of Chemicals in Fish and Aquatic Invertebrates. *Environ.Toxicol.Chem.* 1: 347-358.

  Rejection Code: REFS CHECKED/REVIEW.
- 651. Kenaga, E. F. (1979). Aquatic Test Organisms and Methods Useful for Assessment of Chronic Toxicity of Chemicals. *In: K.L.Dickson, A.W.Maki, and J.Cairns, Jr. (Eds.), Analyzing the Hazard Evaluation*

Process, Am.Fish.Soc. 101-111.

Rejection Code: METHODS/REVIEW.

652. Kendall, T. J., Brewer, L. W., Hitchcock, R. R., and Mayer, J. R. (1992). American Wigeon Mortality Associated with Turf Application of Diazinon AG500. *J.Wild.Dis.* 28: 263-267.

; Habitat: T; Effect Codes: MOR, BCM, ACC

653. Keplinger, M. L. and Deichmann, William B. (1967). Acute toxicity of combinations of pesticides. *Toxicology and Applied Pharmacology* 10: 586-595.

<u>Rejection Code</u>: MIXTURE.

654. Keren-Zur, Mordechai, Beigel, Michael, and Loyter, Abraham (1989). Induction of fusion in aggregated and nonaggregated liposomes bearing cationic detergents. *Biochimica et Biophysica Acta (BBA) - Biomembranes* 983: 253-258.

<u>Rejection Code</u>: METHODS.

655. KERTESZ MA, COOK AM, and LEISINGER, T. (1994). MICROBIAL METABOLISM OF SULFUR-AND PHOSPHORUS-CONTAINING XENOBIOTICS. FEMS MICROBIOLOGY REVIEWS; 15 195-215.

Rejection Code: BACTERIA.

656. Key, P. B., Fulton, M. H., Harman Fetcho, J. A., and McConnell, L. L. (2003). Acetylcholinesterase Activity in Grass Shrimp and Aqueous Pesticide Levels from South Florida Drainage Canals. *Archives of Environmental Contamination and Toxicology [Arch. Environ. Contam. Toxicol.].* Vol. 45, no. 3, pp. 371-377. Oct 2003.

Rejection Code: SURVEY.

657. Khan, M. A. Q. (1977). Elimination of Pesticides by Aquatic Animals. *In: M.A.Q.Khan (Ed.), Pesticides in Aquatic Environments, Plenum Press, NY* 107-125.

; Habitat: A; Effect Codes: ACC

658. Khan, M. A. Q. (1977). Elimination of Pesticides by Aquatic Animals. *In: M.A.Q.Khan (Ed.), Pesticides in Aquatic Environments, Plenum Press, NY* 107-125.

; Habitat: A; Effect Codes: ACC

659. Khan, M. A. Q. and Matsumura, F. (1972). Induction of mixed-function oxidase and protein synthesis by DDT and dieldrin in German and American cockroaches. *Pesticide Biochemistry and Physiology* 2: 236-243. Rejection Code: MIXTURE.

660. Khazraji, A. L., Al-Iraqi, R. A., and Al-Saffar, Z. Y. (1984). The Relative Susceptibility of Culex pipiens molestus Forskal to Certain Insecticides in Nineva District, Iraq. *J.Biol.Sci.Res.* 15: 7-12. Rejection Code: NO DURATION.

661. Khera, K. S. and Bedok, S. (1967). Effects of Thiol Phosphates on Notochordal and Vertebral Morphogenesis in Chick and Duck Embryos. *Food Cosmet.Toxicol.* 5: 359-365.

; Habitat: T; Effect Codes: GRO

662. Khoshbavar-Rostami, H. A., Soltani, M., and Hassan, H. M. D. (Immune response of great sturgeon (Huso huso) subjected to long-term exposure to sublethal concentration of the organophosphate, diazinon. *Aquaculture* In Press, Corrected Proof.

## Rejection Code: NO SOURCE.

- 663. Kiec-Kononowicz, Katarzyna, Karolak-Wojciechowska, Janina, Muller, Christa E., Schumacher, Britta, Pekala, Elzbieta, and Szymanska, Ewa (2001). Imidazo-thiazine, -diazinone and -diazepinone derivatives. Synthesis, structure and benzodiazepine receptor binding. European Journal of Medicinal Chemistry 36: 407-419.
  Rejection Code: METHODS.
- 664. Kikuchi, M. (1993). Toxicity Evaluation of Selected Pesticides Used in Golf Links by Algal Growth Inhibition Test. *J.Jpn.Soc.Water Environ*. 16: 704-710 (JPN)(ENG ABS).
  - ; Habitat: A; Effect Codes: POP
- Kikuchi, M., Miyagaki, T., and Wakabayashi, M. (1996). Evaluation of Pesticides Used in Golf Links by Acute Toxicity Test on Rainbow Trout. *Bull.Jpn.Soc.Sci.Fish.(Nippon Suisan Gakkaishi)* 62: 414-419 (JPN) (ENG ABS).
  - ; Habitat: A; Effect Codes: MOR
- 666. Kikuchi, T., Kamei, M., Okubo, S., and Yasuno, M. (1992). Effects of the Insect Growth Regulator Methoprene and Organophosphorus Insecticides Against Non-target Aquatic Organisms in Urban Drains. *Jpn.J.Sanit.Zool./Eisei Dobutsu* 43: 65-70(JPN) (ENG ABS).
  - ; Habitat: A; Effect Codes: MOR
- 667. Kim, Ji-Young, Park, Hee-Sae, Kang, Soo Im, Choi, Eui-Ju, and Kim, Ick Young (2002). Redox regulation of cytosolic glycerol-3-phosphate dehydrogenase: Cys102 is the target of the redox control and essential for the catalytic activity. *Biochimica et Biophysica Acta (BBA) General Subjects* 1569: 67-74.

Rejection Code: METHODS.

- 668. Kim, Moon Suk and Diamond, Scott L. (Photocleavage of o-nitrobenzyl ether derivatives for rapid biomedical release applications. *Bioorganic & Medicinal Chemistry Letters* In Press, Corrected Proof. Rejection Code: METHODS.
- 669. Kim, Sunggak, Chang, Heung, and Young Kwan Ko (1985). Benzotriazol-1-yl diethyl phosphate. A new convenient coupling reagent for the synthesis of amides and peptides. *Tetrahedron Letters* 26: 1341-1342.

  Rejection Code: METHODS.
- 670. Kimura, T. and Keegan, H. L. (1966). Toxicity of Some Insecticides and Molluscicides for the Asian Blood Sucking Leech, Hirudo nipponia Whitman. *Am.J.Trop.Med.Hyg.* 15: 113-115.
  - ; Habitat: A; Effect Codes: MOR,PHY
- 671. Kirkbride, K. P. (An Estimation of Diazinon in Omental Tissue. *J anal toxicol. 1987 jan-feb; 11(1):6-7.*[Journal of analytical toxicology]: J Anal Toxicol.

  Rejection Code: HUMAN HEALTH.
- 672. Kirkwood, A. C. and Quick, M. P. (1981). Diazinon for the Control of Sheep Scab. Vet Rec 279-280.
  - ; Habitat: T; Effect Codes: POP
- 673. Kirpnick, Zhanna, Homiski, Michael, Rubitski, Elizabeth, Repnevskaya, Marina, Howlett, Niall, Aubrecht,

- Jiri, and Schiestl, Robert H. (2005). Yeast DEL assay detects clastogens. *Mutation Research/Genetic Toxicology and Environmental Mutagenesis* 582: 116-134. Rejection Code: YEAST.
- 674. Kishino, K. I. (1987). 1986 Evaluation of Candidate Pesticides. (A-I) Insecticides Rice and other Cereals. *Jpn.Pestic.Inf.* 50: 24-36.

  Rejection Code: NO DURATION.
- 675. Kishino, K. I. (1987). 1986 Evaluation of Candidate Pesticides. (A-I) Insecticides Vegetables Ornamental Crops and Industrial Crops. *Jpn.Pestic.Inf.* 50: 24-36.

  <u>Rejection Code</u>: NO DURATION.
- 676. Kitos, P. A., Anderson, D. S., Uyeki, E. M., Misawa, M., and Wyttenbach, C. R. (1981). Teratogenic Effects of Cholinergic Insecticides in Chick Embryos--2 Effects on the Nad Content of Early Embryos. *Biochem.Pharmacol.* 30 (16): 2225-2235.
  - ; Habitat: T; Effect Codes: GRO, BCM
- 677. Klaeboe, P., Nielsen, C. J., Priebe, H., Schei, S. H., and Sjogren, C. E. (1986). The vibrational spectra, molecular structure and conformations of organic azides. I. A survey. *Journal of Molecular Structure* 141: 161-172.

  Rejection Code: SURVEY.
- 678. Klassen, W., Keppler, W. J., and Kitzmiller, J. B. (1965). Toxicities of Certain Larvicides to Resistant and Susceptible Aedes aegypti (L.). *Bull.W.H.O.* 33: 117-122.

  <u>Rejection Code</u>: NO DURATION.
- 679. Kline, E. R., Mattson, V. R., Pickering, Q. H., Spehar, D. L., and Stephan, C. E. (1987). Effects of Pollution on Freshwater Organisms. *J.Water Pollut.Control Fed.* 59: 539-572. Rejection Code: REFS CHECKED/REVIEW.
- 680. Kline, E. R., Mattson, V. R., Pickering, Q. H., Spehar, D. L., and Stephan, C. E. (1987). Effects of Pollution on Freshwater Organisms. *J.Water Pollut.Control Fed.* 59: 539-572.

  Rejection Code: REFS CHECKED/REVIEW.
- 681. Knowles, C. O., Errampalli, D. D., and El-Sayed, G. N. (1988). Comparative Toxicities of Selected Pesticides to Bulb Mite (Acari: Acaridae) and Twospotted Spider Mite (Acari: Tetranychidae). *J.Econ.Entomol.* 81: 1586-1591.
  - ; Habitat: T; Effect Codes: MOR
- 682. KNOWLES CO and HAMED MS (1988). ACARICIDE TOXICITY PENETRATING AND METABOLISM IN THE BULB MITE. 196TH AMERICAN CHEMICAL SOCIETY NATIONAL MEETING, LOS ANGELES, CALIFORNIA, USA, SEPTEMBER 25-30, 1988. ABSTR PAP AM CHEM SOC; 196 AGRO-164.

  Rejection Code: ABSTRACT.
- 683. Kobayashi, K., Wang, Y., Kimura, S., Rompas, R. M., Imada, N., and Oshima, Y. (1993). Practical Application of Piperonyl Butoxide for the Reduction of Organophosphorus Insecticide-Toxicity to Kuruma Prawn. *Bull.Jpn.Soc.Sci.Fish.*(*Nippon Suisan Gakkaishi*) 59: 2053-2057.
  - ; <u>Habitat</u>: A; <u>Effect Codes</u>: MOR
- 684. Kobayashi, K., Wang, Y., Kimura, S., Rompas, R. M., Imada, N., and Oshima, Y. (1993). Practical application of piperonyl butoxide for the reduction of organophosphorus insecticide-toxicity to

kuruma prawn. *Nippon Suisan Gakkaishi [NIPPON SUISAN GAKKAISHI/BULL. JAP. SOC. SCI. FISH.]. Vol. 59, no. 12, pp. 2053-2057. 1993.*Rejection Code: MIXTURE.

- 685. Kobayashi, Toshihide, Pimplikar, Sanjay W., Parton, Robert G., Bhakdi, Sucharit, and Simons, Kai (1992). Sphingolipid transport from the trans-Golgi network to the apical surface in permeabilized MDCK cells. *FEBS Letters* 300: 227-231.

  <u>Rejection Code</u>: METHODS.
- 686. Koestler, R. C., Janes, G., and Miller, J. A. (1992). Pesticide Delivery. In: A.Kydonieus (Ed.), Treatise on Controlled Drug Delivery: Fundamentals, Optimization, Applications, Chapter 11, Marcel Dekker Inc., NY 492-543. Rejection Code: REVIEW.
- 687. KOJIMA, T., TSUDA, S., and SHIRASU, Y. (1993). Inhibitory effect of fenthion and diazinon on the contraction of rat aorta, and its contribution to lethality. *J VET MED SCI*; 55 383-385. Rejection Code: IN VITRO.
- 688. Kojima, T., Tsuda, S., and Shirasu, Y. (1992). Non-cholinergic Mechanisms Underlying the Acute Lethal Effects of P=S Type Organophosphorus Insecticides in Rats. *J.Vet.Med.Sci.* 54: 529-533.
  - ; Habitat: T; Effect Codes: PHY, MOR
- 689. Kok, L. T. (1972). Toxicity of Insecticides Used for Asiatic Rice Borer Control to Tropical Fish in Rice Paddies. *In: The Careless Technol.: Conf. on the Ecological Aspects of Int. Development* 498.
  - ; Habitat: A; Effect Codes: MOR
- 690. Koketsu, K. (1966). Restorative action of fluoride on synaptic transmission blocked by organophosphorous anticholinesterases. *Neuropharmacology* 5: 247-254. Rejection Code: IN VITRO, MIXTURE.
- 691. KOLPIN DW, BARBASH JE, and GILLIOM RJ (1998). Occurrence of pesticides in shallow groundwater of the United States: Initial results from the National Water-Quality Assessment Program. *ENVIRONMENTAL SCIENCE & TECHNOLOGY; 32* 558-566.

  Rejection Code: SURVEY.
- 692. Konno, T. and Kajihara, O. (1985). Synergism of Pirimicarb and Organophosphorus Insecticides Against the Resistant Rice Stem Borer, Chilo suppressalis Walker (Lepidoptera: Pyralidae). *Appl.Entomol.Zool.* 20: 403-410.
  - ; Habitat: T; Effect Codes: MOR
- 693. Kono, Kenji, Henmi, Akiko, and Takagishi, Toru (1999). Temperature-controlled interaction of thermosensitive polymer-modified cationic liposomes with negatively charged phospholipid membranes. *Biochimica et Biophysica Acta (BBA) Biomembranes* 1421: 183-197. Rejection Code: METHODS.
- 694. Kono, Kenji, Igawa, Toshihiro, and Takagishi, Toru (1997). Cytoplasmic delivery of calcein mediated by liposomes modified with a pH-sensitive poly(ethylene glycol) derivative. *Biochimica et Biophysica Acta (BBA) Biomembranes* 1325: 143-154.

  Rejection Code: METHODS.
- 695. Kono, Kenji, Nakai, Ryoichi, Morimoto, Keiji, and Takagishi, Toru (1999). Temperature-dependent interaction of thermo-sensitive polymer-modified liposomes with CV1 cells. *FEBS Letters* 456:

306-310.

Rejection Code: METHODS.

696. Kono, Kenji, Zenitani, Ken-ichi, and Takagishi, Toru (1994). Novel pH-sensitive liposomes: liposomes bearing a poly(ethylene glycol) derivative with carboxyl groups. *Biochimica et Biophysica Acta (BBA) - Biomembranes* 1193: 1-9.

Rejection Code: METHODS.

- 697. Konstantinou, Ioannis K., Hela, Dimitra G., and Albanis, Triantafyllos A. (2006). The status of pesticide pollution in surface waters (rivers and lakes) of Greece. Part I. Review on occurrence and levels. *Environmental Pollution* 141: 555-570.

  Rejection Code: SURVEY, REVIEW.
- 698. Koo, Hyun-Young, Shin, Incheol, Lee, Zee-Won, Lee, Sang-Ho, Kim, Sang-Hyo, Lee, Chang-Ho, Kang, Ho-Sung, and Ha, Kwon-Soo (1999). Roles of RhoA and Phospholipase A2 in the Elevation of Intracellular H2O2 by Transforming Growth Factor-[beta] in Swiss 3T3 Fibroblasts. *Cellular Signalling* 11: 677-683.
  Rejection Code: NO TOX DATA.
- 699. Koprucu, Sibel Simsek, Koprucu, Kenan, Ural, Mevlut Sener, Ispir, Unal, and Pala, Murat (Acute toxicity of organophosphorous pesticide diazinon and its effects on behavior and some hematological parameters of fingerling European catfish (Silurus glanis L.). *Pesticide Biochemistry and Physiology* In Press, Corrected Proof.

  Rejection Code: NO SOURCE.
- 700. Koren, Eugen, Koscec, Mirna, McConathy, Walter J., and Fugate, Robert D. (1991). Possible role of macrophages in regression of atherosclerosis. *Progress in Lipid Research* 30: 237-243. Rejection Code: NO TOX DATA.
- 701. Koulov, Atanas V., Vares, Lauri, Jain, Mahim, and Smith, Bradley D. (2002). Cationic triple-chain amphiphiles facilitate vesicle fusion compared to double-chain or single-chain analogues. *Biochimica et Biophysica Acta (BBA) - Biomembranes* 1564: 459-465. <u>Rejection Code</u>: METHODS.
- 702. Kovacs, Jozsef, Pinter, Istvan, Kajtar-Peredy, Maria, Argay, Gyula, Kalman, Alajos, Descotes, Gerard, and Praly, Jean-Pierre (1999). Synthesis of [nu]-triazole derivatives from anomeric sugar diazides. *Carbohydrate Research* 316: 112-120.

  <u>Rejection Code</u>: METHODS.
- 703. Kovacs, Jozsef, Pinter, Istvan, Kajtar-Peredy, Maria, Praly, Jean-Pierre, and Descotes, Gerard (1995). Unexpected transformation of 2,3,4,6-tetra-O-acetyl-d-glucopyranosylidene 1,1-diazide with triphenylphosphine. *Carbohydrate Research* 279: C1-C3.

  <u>Rejection Code</u>: METHODS.
- 704. Kratzer, C. R. (1999). Transport of Diazinon in the San Joaquin River Basin, California. *Journal of the American Water Resources Association [J. Am. Water Resour. Assoc.]. Vol. 35, no. 2, 379 p. Apr 1999.*Rejection Code: FATE.
- 705. Kratzer, C. R. (1999). Transport of Diazinon in the San Joaquin River Basin, California. *J.Am.Water Res.Assoc.* 35: 379-395.
  Rejection Code: EFFLUENT.
- 706. Kratzer, C. R., Zamora, C., and Knifong, D. L. (2002). Diazinon and Chlorpyrifos Loads in the San Joaquin River Basin, California, January and February 2000.

- Rejection Code: SURVEY.
- 707. Kraus, G. A., Nagy, J. O., and DeLano, J. (1985). Quinone diazide cyclizations a direct route to dihydrobenzofurans. *Tetrahedron* 41: 2337-2340.

  <u>Rejection Code</u>: METHODS.
- 708. Kraus, M. P. (1985). Cyanophage Assay as a New Concept in the Study of Environmental Toxicity. *In:* R.D.Cardwell, R.Purdy, and R.C.Bahner (Eds.), Aquatic Toxicology and Hazard Assessment, Seventh Symposium, ASTM STP 854, Philadelphia, PA 27-41.
  - ; Habitat: A; Effect Codes: POP
- 709. Krause, R. T. and August, E. M. (1983). Applicability of a carbamate insecticide multiresidue method for determining additional types of pesticides in fruits and vegetables. *Journal of the Association of Official Analytical Chemists [J. ASSOC. OFF. ANAL. CHEM.]. Vol. 66, no. 2, pp. 234-240. 1983.*Rejection Code: METHODS.
- 710. Krijnen, C. J. and Boyd, E. M. (1971). The Influence of Diets Containing from 0 to 81 per Cent of Protein on Tolerated Doses of Pesticides. *Comp.Gen.Pharmacol.* 2: 373-376. Rejection Code: NO DURATION.
- 711. Krijnen, C. J. and Boyd, E. M. (1970). Susceptibility to Captan Pesticide of Albino Rats Fed from Weaning on Diets Containing Various Levels of Protein. *Food Cosmet.Toxicol.* 8: 35-42.
  - ; Habitat: T; Effect Codes: MOR,GRO
- 712. Kroes, R., Galli, C., Munro, I., Schilter, B., Tran, L. A., Walker, R., and Wurtzen, G. (2000). Threshold of Toxicological Concern for Chemical Substances Present in the Diet: a Practical Tool for Assessing the Need for Toxicity Testing. *Food Chem.Toxicol.* 38: 255-312. Rejection Code: REVIEW.
- 713. Ku, Y., Chang, J., and Cheng, S. (1998). Effect of Solution pH on the Hydrolysis and Photolysis of Diazinon in Aqueous Solution. Water Air Soil Pollut. 108: 445-456. Rejection Code: NO SPECIES.
- 714. Ku, Y., Chang, J., Shen, Y., and Lin, S. (1998). Decomposition of Diazinon in Aqueous Solution by Ozonation. *Water Res.* 32: 1957-1963. Rejection Code: NO SPECIES.
- 715. KU, Y., CHANG J-L, and CHENG S-C (1998). Effect of solution pH on the hydrolysis and photolysis of diazinon in aqueous solution. *WATER AIR AND SOIL POLLUTION*; 108 445-456. Rejection Code: FATE.
- 716. Kuhr, R. J. and Tashiro, H. (1978). Distribution and Persistence of Chloropyrifos and Diazinon Applied to Turf. *Bull.Environ.Contam.Toxicol.* 20: 652-656.
  - ; Habitat: T; Effect Codes: ACC
- 717. Kuivila, K. M. (1993). Diazinon Concentrations in the Sacramento and San Joaquin Rivers and San Francisco Bay, California, January 1993. *U.S. Geological Survey, Open-File Report 93-440* 7. Rejection Code: NO DURATION/SURVEY.
- 718. Kuivila, K. M. and Foe, C. G. (1995). Concentrations, transport and biological effects of dormant spray pesticides in the San Francisco Estuary, California. *Environmental Toxicology and Chemistry [ENVIRON. TOXICOL. CHEM.]. Vol. 14, no. 7, pp. 1141-1150. 1995.*

- Rejection Code: FATE.
- 719. Kuivila, K. M. and Foe, C. G. (1995). Concentrations, Transport and Biological Effects of Dormant Spray Pesticides in the San Francisco Estuary, California. *Environ.Toxicol.Chem.* 14: 1141-1150. Rejection Code: MIXTURE.
- 720. Kump, D. F., Matulka, R. A., Edinboro, L. E., Poklis, A., and Holsapple, M. P. (1994). Disposition of cocaine and norcocaine in blood and tissues of B6C3F1 mice. *Journal of Analytical Toxicology* [J. ANAL. TOXICOL.]. Vol. 18, no. 6, pp. 342-345. 1994.

  Rejection Code: MIXTURE.
- 721. Kunert, M. and Heymann, E. (1975). The equivalent weight of pig liver carboxylesterase (ec 3.1.1.1) and the esterase content of microsomes. *FEBS Letters* 49: 292-296. Rejection Code: NO TOX DATA.
- 722. Kunz, S. E. and Kemp, D. H. (1994). Insecticides and Acaricides: Resistance and Environmental Impact. *Rev.Sci.Tech.Off.Int.Epizoot.* 13: 1249-1286.

  <u>Rejection Code</u>: REFS CHECKED/REVIEW.
- 723. Kunz, S. E. and Kemp, D. H. (1994). Insecticides and Acaricides: Resistance and Environmental Impact. *Rev.Sci.Tech.Off.Int.Epizoot.* 13: 1249-1286.

  <u>Rejection Code</u>: REFS CHECKED/REVIEW.
- 724. Kurle, J. E. and Pfleger, F. L. (1994). The Effects of Cultural Practices and Pesticides on Vam Fungi. *In:*F.L.Pfleger and R.G.Linderman (Eds.), Mycorrhizae and Plant Health, Am.Phytopathol.Soc.(APS)
  Press, St.Paul, MN 101-131.
  Rejection Code: REFS CHECKED/REVIEW.
- 725. Kuroda, K. (1975). Lethal Effect of Pesticides on Saghalien Trout Fry. *Mizu Shori Gijutsu (Water Purification Liquid Wastes Treatment)* 16: 441-448 (JPN) (Author Communication Used).
  - ; Habitat: A
- 726. Kuroda, Yasuhisa, Kobayashi, Osamu, Suzuki, Yasuhiko, and Ogoshi, Hisanobu (1989). 5A,5D-dicarboxy[beta]-cyclodextrin derivatives a route for regioselectively difunctionalized permethyl-[beta]cyclodextrin. *Tetrahedron Letters* 30: 7225-7228.

  <u>Rejection Code</u>: METHODS.
- 727. Kushaba-Rugaaju, Sem and Kitos, Paul A. (1985). Effects of Diazinon on Nucleotide and Amino Acid Contents of Chick Embryos: Teratogenic Considerations. *Biochem.Pharmacol.* 34: 1937-1943.
  - ; Habitat: T; Effect Codes: BCM
- 728. Kuszmann, Janos (1986). 1,4-diamino-1,4-dideoxy--galactitol and 1,5-diamino-1,5-dideoxy--altritol. *Carbohydrate Research* 156: 25-37. <u>Rejection Code</u>: METHODS.
- 729. Kuszmann, Janos and Pelczer, Istvan (1982). 1,6-Diamino-2,5-anhydro-1,6-dideoxy--glucitol and some derivatives thereof. *Carbohydrate Research* 108: 247-260. Rejection Code: METHODS.
- 730. Kuwabara, K., Nakamura, A., and Kashimoto, T. (1980). Effect of Petroleum Oil, Pesticides, PCBs and Other Environmental Contaminants on the Hatchability of Artemia salina Dry Eggs. *Bull.Environ.Contam.Toxicol.* 25: 69-74.

- ; Habitat: A; Effect Codes: MOR
- 731. Kwak, Inn-Sil, Chon, Tae-Soo, Kang, Hyun-Min, Chung, Nam-Il, Kim, Jong-Sang, Koh, Sung Cheol, Lee, Sung-Kyu, and Kim, Yoo-Shin (2002). Pattern recognition of the movement tracks of medaka (Oryzias latipes) in response to sub-lethal treatments of an insecticide by using artificial neural networks. *Environmental Pollution* 120: 671-681.

  Rejection Code: MODELING.
- 732. Kyaw, M. O. (2001). The half-lives of biological activity of some pesticides in water. *Naga [Naga]. Vol.* 24, no. 3-4, pp. 11-13. 2001.

  Rejection Code: FATE.
- 733. L'Italien, S. and Struger, J. (1995). Pesticide concentrations in water and suspended sediment in Lake Erie. Rejection Code: SURVEY.
- 734. La Mar, Gerd N., Del Gaudio, John, and Frye, James S. (1977). Axial pertubations on the electronic and magnetic properties of ferric porphyrins: II. Solvent effects on the proton NMR spectra of low-spin cyano complexes. *Biochimica et Biophysica Acta (BBA) General Subjects* 498: 422-435. Rejection Code: METHODS.
- 735. LABONDE, J. (1996). TOXIC DISORDERS. ROSSKOPF, W. J. AND R. W. WOERPEL (ED.).
  DISEASES OF CAGE AND AVIARY BIRDS, THIRD EDITION. XV+1088P. WILLIAMS AND
  WILKINS CO.: BALTIMORE, MARYLAND, USA; LONDON, ENGLAND, UK. ISBN 0-68307382-6.; 0 (0). 1996. 511-522.
  Rejection Code: NO TOX DATA, REVIEW.
- 736. LaBonde, J. (1996). Toxic Disorders. *In: W.J.Rosskopf and R.W.Woerpel (Eds.), Disease of Cage and Aviary Birds, 3rd Edition, Williams and Wilkins Co., Baltimore, MD* 511-522. Rejection Code: REFS CHECKED/REVIEW.
- 737. LaBrecque, G. C., Noe, J. R., and Gahan, J. B. (1956). Effectiveness of Insecticides on Granular Clay Carriers Against Mosquito Larvae. *Mosq.News* 16: 1-3.
  - ; Habitat: A; Effect Codes: MOR
- 738. Lacorte, S., Lartiges, S. B., Garrigues, P., and Barcelo, D. \*. (1995). Degradation of organophosphorus pesticides and their transformation products in estuarine waters. *Environmental Science & Technology [ENVIRON. SCI. TECHNOL.]. Vol. 29, no. 2, pp. 431-438. 1995.*Rejection Code: FATE.
- 739. Lacy, D. B., Tepp, W., Cohen, A. C., DasGupta, B. R., and Stevens, R. C. \*. (1998). Crystal structure of botulinum neurotoxin type A and implications for toxicity. *Nature Structural Biology [Nat. Struct. Biol.]. Vol. 5, no. 10, pp. 898-902. Oct 1998.*Rejection Code: METHODS.
- 740. Lambropoulou, D. A. and Albanis, T. A. (2001). Optimization of headspace solid-phase microextraction conditions for the determination of organophosphorus insecticides in natural waters. *Journal of Chromatography A [J. Chromatogr.]. Vol. 922, no. 1-2, pp. 243-255. Jul 2001.*Rejection Code: METHODS.
- 741. Lamoureux, G. L. and Rusness, D. G. (1995). Status and Future of Synergists in Resistance Management. In: N.N.Ragsdale, P.C.Kearney, and J.R.Plimmer (Eds.), Proc.8th Int.Congr.of Pestic.Chem., Am.Chem.Soc., Washington, D.C. 350-366. Rejection Code: REVIEW.

- 742. Land, L. F. and Brown, M. F. (1996). Water-Quality Assessment of the Trinity River Basin, Texas Pesticides in Streams Draining an Urban and an Agricultural Area, 1993-95. *Water-Resources Investigations Rep.No.96-4114, U.S.Geological Survey, Austin, TX* 22.

  <u>Rejection Code</u>: NO SPECIES.
- 743. Landen, George and Moore, Harold W. (1976). Chemistry of geminal diazides. Rearrangements to N-Cyano compounds. *Tetrahedron Letters* 17: 2513-2516. Rejection Code: METHODS.
- 744. Landis, W. G., Hughes, J. S., Lewis, M. A., Landis, W. G., Hughes, J. S., and Lewis, M. A. Eds. (1993). American Society for Testing and Materials (ASTM). ASTM (Am.Soc.for Test.and Mater.) Spec.Tech.Publ.No.1179.Environ.Toxicol.and Risk Assess., 1st Symposium, Apr.14-16, 1991, Atlantic City, NJ 431 p.

  Rejection Code: REVIEW.
- 745. Langner, Marek and Hui, SekWen (2000). Effect of free fatty acids on the permeability of 1,2-dimyristoyl-sn-glycero-3-phosphocholine bilayer at the main phase transition. *Biochimica et Biophysica Acta* (*BBA*) *Biomembranes* 1463: 439-447.

  Rejection Code: METHODS.
- 746. Larsen, K., Connor, V., Deanovic, L., and Hinto, D. (1998). Sacramento River Program Toxicity Monitoring Results: 1997-1998. *Prepared for the Sacramento Reg. County Sanit. Dist.*, Central Valley Reg. Water Qual. Control Bd., Sacramento, CA, Univ. of California, Davis, CA. Rejection Code: EFFLUENT.
- 747. Larson, Steven J., Capel, Paul D., Goolsby, Donald A., Zaugg, Steven D., and Sandstrom, Mark W. (1995).

  Relations between pesticide use and riverine flux in the Mississippi River basin. *Chemosphere* 31: 3305-3321.

  <u>Rejection Code</u>: SURVEY.
- 748. Lauer, Sabine A., Chatterjee, Subroto, and Haldar, Kasturi (2001). Uptake and hydrolysis of sphingomyelin analogues in Plasmodium falciparum-infected red cells. *Molecular and Biochemical Parasitology* 115: 275-281.

  <u>Rejection Code</u>: NO TOX DATA.
- 749. Laulagnier, Karine, Grand, David, Dujardin, Arnaud, Hamdi, Safouane, Vincent-Schneider, Helene, Lankar, Danielle, Salles, Jean-Pierre, Bonnerot, Christian, Perret, Bertrand, and Record, Michel (2004). PLD2 is enriched on exosomes and its activity is correlated to the release of exosomes. *FEBS Letters* 572: 11-14.

  Rejection Code: METHODS.
- 750. Lawaczeck, Rudiger, Gervais, Monique, Nandi, Pradip K., and Nicolau, Claude (1987). Fusion of negatively charged liposomes with clathrin-uncoated vesicles. *Biochimica et Biophysica Acta (BBA) Biomembranes* 903: 112-122.

  Rejection Code: METHODS.
- 751. Lawaczeck, Rudiger, Nandi, Pradip K., and Nicolau, Claude (1987). Interaction of negatively charged liposomes with nuclear membranes: adsorption, lipid mixing and lysis of the vesicles. *Biochimica et Biophysica Acta (BBA) Biomembranes* 903: 123-131.

  Rejection Code: METHODS.
- 752. Laygo, E. R. and Schulz, J. T. (1963). Persistence of Organophosphate Insecticides and Their Effects on Microfauna in Soils. *Proc.N.D.Acad.Sci.* 17: 64-65. Rejection Code: ABSTRACT.

- 753. LEBREUX, B., MAYNARD, L., and WACKOWIEZ, G. (1997). EVALUATION OF THE EFFICACY OF A DIAZINON + PYRIPROXYFEN COLLAR IN THE TREATMENT AND CONTROL OF FLEA INFESTATIONS IN CATS. 7TH EUROPEAN ASSOCIATION FOR VETERINARY PHARMACOLOGY AND TOXICOLOGY INTERNATIONAL CONGRESS, MADRID, SPAIN, JULY 6-10, 1997. JOURNAL OF VETERINARY PHARMACOLOGY AND THERAPEUTICS; 20 157-158.

  Rejection Code: ABSTRACT.
- 754. Lee, C. Y., Lee, L. C., Ang, B. H., and Chong, N. L. (1999). Insecticide Resistance in Blattella germanica (L.) (Dictyoptera: Blattellidae) from Hotels and Restaurants in Malaysia. *In: W.H.Robinson, R.Rettich, and G.Rambo (Eds.), Proc.3rd Int.Conf.on Urban Pests, Graficke Zavody Hronov, Czech Republic* 171-182.
  - ; Habitat: T; Effect Codes: MOR
- 755. Lee, Eun Kyung, Kim, Yoo Jung, Park, Won Chul, Chung, Taeowan, and Lee, Yong Tae (2005).

  Monoclonal antibody-based enzyme-linked immunosorbent assays for the detection of the organophosphorus insecticide diazinon. *Analytica Chimica Acta* 530: 143-153.

  Rejection Code: METHODS.
- 756. Lee, Hye-Sung, Ah Kim, Young, Ae Cho, Young, and Tae Lee, Yong (2002). Oxidation of organophosphorus pesticides for the sensitive detection by a cholinesterase-based biosensor. *Chemosphere* 46: 571-576.

  Rejection Code: NO TOX DATA.
- 757. Lee, S., McLaughlin, R., Harnly, M., Gunier, R., and Kreutzer, R. (2002). Community Exposures to Airborne Agricultural Pesticides in California: Ranking of Inhalation Risks. *Environmental Health Perspectives [Environ. Health Perspect.]. Vol. 110, no. 12, pp. 1175-1184. Dec 2002.*Rejection Code: HUMAN HEALTH.
- 758. Lee, T. T. and Wilkinson, Colleen E. (1973). Differential response of plant cell membranes to some vinyl organophosphorus insecticides. *Pesticide Biochemistry and Physiology* 3: 341-350. Rejection Code: IN VITRO.
- 759. Lehotay, S. J., Harman-Fetcho, J. A., and McConnell, L. L. (1998). Agricultural Pesticide Residues in Oysters and Water from Two Chesapeake Bay Tributaries. *Mar.Pollut.Bull.* 37: 32-44. Rejection Code: NO DURATION/SURVEY.
- 760. LEHOTAY SJ, HARMAN-FETCHO JA, and MCCONNELL LL (1998). Agricultural pesticide residues in oysters and water from two Chesapeake Bay Tributaries. MARINE POLLUTION BULLETIN; 37 32-44.
  Rejection Code: SURVEY.
- 761. LEHOTAY SJ and VALVERDE-GARCIA, A. (1997). Evaluation of different solid-phase traps for automated collection and clean-up in the analysis of multiple pesticides in fruits and vegetables after supercritical fluid extraction. *JOURNAL OF CHROMATOGRAPHY A*; 765 69-84.

  Rejection Code: METHODS.
- 762. Lemic, Jovan, Kovacevic, Divna, Tomasevic-Canovic, Magdalena, Kovacevic, Dragana, Stanic, Tanja, and Pfend, Robert (2006). Removal of atrazine, lindane and diazinone from water by organo-zeolites. *Water Research* 40: 1079-1085.

  Rejection Code: METHODS.
- 763. Lemke, L. A. and Kissam, J. B. (1987). Evaluation of Various Insecticides and Home Remedies for Control of Individual Red Imported Fire Ant Colonies. *J.Entomol.Sci.* 22: 275-281.

- 764. LENTZA-RIZOS, C. (1996). Insecticides authorized for use on olive trees and the relationship between their registration and residues in olive oil. *GRASAS Y ACEITES*; 47 392-396. Rejection Code: HUMAN HEALTH.
- 765. LEPINE FL (1991). Effects of ionizing radiation on pesticides in a food irradiation perspective: A bibliographic review. J AGRIC FOOD CHEM; 39 2112-2118.
  Rejection Code: FATE, REVIEW.
- 766. Levanon, D., Meisinger, J. J., Codling, E. E., and Starr, J. L. (1994). Impact of tillage on microbial activity and the fate of pesticides in the upper soil. *Water, Air, and Soil Pollution, 72 (1-4) pp. 179-189, 1994*.

  Rejection Code: FATE.
- 767. LEVIN PS, CHIASSON, W., and GREEN JM (1997). Geographic differences in recruitment and population structure of a temperate reef fish. *MARINE ECOLOGY PROGRESS SERIES*; 161 23-35.

  Rejection Code: SURVEY.
- 768. Levine, Barry S. and Murphy, Sheldon D. (1977). Effect of piperonyl butoxide on the metabolism of dimethyl and diethyl phosphorothionate insecticides. *Toxicology and Applied Pharmacology* 40: 393-406. Rejection Code: MIXTURE.
- 769. Levine, Barry S. and Murphy, Sheldon D. (1977). Esterase inhibition and reactivation in relation to piperonyl butoxide-phosphorothionate interactions. *Toxicology and Applied Pharmacology* 40: 379-391.
  Rejection Code: NO MIXTURE.
- 770. Levine, Seymour and Sowinski, Richard (1977). Renal papillitis and urinary obstruction caused by a substituted pyrimidine. *Toxicology and Applied Pharmacology* 42: 603-606. Rejection Code: NO COC.
- 771. LEVOT GW (1994). A survey of Organophosphate susceptibility in populations of Bovicola ovis (Schrank) (Phthiraptera: Trichodectidae). *JOURNAL OF THE AUSTRALIAN ENTOMOLOGICAL SOCIETY*; 33 31-34.

  <u>Rejection Code</u>: SURVEY.
- 772. LEVOT GW and SALES, N. (1997). Insecticide residues in wool from sheep jetted by hand and via automatic jetting races. *AUSTRALIAN JOURNAL OF EXPERIMENTAL AGRICULTURE*; 37 737-742.

  Rejection Code: FATE.
- 773. Lewis, J. B. and Sawicki, R. M. (1971). Characterization of the resistance mechanisms to diazinon, parathion and diazoxon in the organophosphorus-resistant SKA strain of house flies (Musca domestica L.). *Pesticide Biochemistry and Physiology* 1: 275-285.

  Rejection Code: IN VITRO.
- 774. LEWIS MA (1986). Impact of a municipal wastewater effluent on water quality, periphyton, and invertebrates in the little Miami River near Xenia, Ohio (USA). *OHIO J SCI*; 86 2-8. Rejection Code: SURVEY, MIXTURE.
- 775. Li, G. C. and Chen, C. Y. (1981). Study on the Acute Toxicities of Commonly Used Pesticides to Two Kinds of Fish. *K'O Hsueh Fa Chan Yueh K'an* 9: 146-152(CHI)(ENG ABS).

- ; Habitat: A; Effect Codes: PHY
- 776. Li, L. H. and Hui, S. W. (1997). The effect of lipid molecular packing stress on cationic liposome-induced rabbit erythrocyte fusion. *Biochimica et Biophysica Acta (BBA) Biomembranes* 1323: 105-116. Rejection Code: METHODS.
- 777. Li, P. C. H., Swanson, E. J., and Gobas FAPC (2002). Diazinon and Its Degradation Products in Agricultural Water Courses in British Columbia, Canada. *Bulletin of Environmental Contamination and Toxicology [Bull. Environ. Contam. Toxicol.]. Vol. 69, no. 1, pp. 59-65. 2002.* Rejection Code: FATE.
- 778. Li, Qiu-Tian and Kam, Wai Kuen (1997). Steady-state fluorescence quenching for detecting acyl chain interdigitation in phosphatidylcholine vesicles. *Journal of Biochemical and Biophysical Methods* 35: 11-22.

  <u>Rejection Code</u>: METHODS.
- 779. Li, W., Dobraszczyk, B. J., and Wilde, P. J. (2004). Surface properties and locations of gluten proteins and lipids revealed using confocal scanning laser microscopy in bread dough. *Journal of Cereal Science* 39: 403-411.

  Rejection Code: METHODS.
- 780. Li, Yan-Tuan, Yan, Cui-Wei, Guo, Bing-Ran, and Liao, Dai-Zheng (1997). Synthesis, characterization and magnetic properties of novel [mu]-isophthalato oxovanadium(IV) binuclear complexes. *Polyhedron* 16: 4379-4384.

  <u>Rejection Code</u>: METHODS.
- 781. Lichtenstein, E. P. (1975). Chemical Residue Interactions and Effects in Soil-Plant-Animal Systems.

  Proc.and Rep. of Two Resear. Co-Ordination Meetings Organized by the Joint FAO/IAEA Div. of
  Atomic Energy in Food and Agriculture, Nov. 5-9, 1973 and June 4-7, 1974, Vienna, Austria 3-7.
  - ; Habitat: T; Effect Codes: ACC,GRO,MOR
- 782. Lichtenstein, E. P. (1966). Increase of Persistence and Toxicity of Parathion and Diazinon in Soils with Detergents. *J.Econ.Entomol.* 59: 985-993.
  - ; Habitat: T; Effect Codes: MOR
- 783. Lichtenstein, E. P., Liang, T. T., and Anderegg, B. N. (1973). Synergism of Insecticides by Herbicides. *Science* 181: 847-849.
  - ; Habitat: AT; Effect Codes: MOR
- 784. Lichtenstein, E. P., Liang, T. T., and Anderegg, B. N. (1975). Synergism of Insecticides by Herbicides Under Various Environmental Conditions. *Environ.Conserv.* 2: 148.

  <u>Rejection Code</u>: REVIEW.
- 785. Lieber, E., Rao, C. N. R., and Keane, F. M. (1963). Phenyl lead (IV) azides--preparation, properties and infra-red spectra. *Journal of Inorganic and Nuclear Chemistry* 25: 631-635. Rejection Code: METHODS.
- 786. LIESS, M., SCHULZ, R., LIESS, M. H-D, ROTHER, B., and KREUZIG, R. (1999). Determination of insecticide contamination in agricultural headwater streams. *WATER RESEARCH*; *33* 239-247. Rejection Code: METHODS.

- 787. Lilly, J. H., Mohiyudden, S., Prabhuswamy, H. P., Samuel, J. C., and Shetty, S. V. R. (1969). Effects of Insecticide-Treated Rice Plants and Paddy Water on Vertebrate Animals. *Mysore J.Agric.Res.* 3: 371-379.
  - ; Habitat: AT; Effect Codes: MOR
- 788. Lima Alejandro and Vega Libia (2005). Methyl-parathion and organophosphorous pesticide metabolites modify the activation status and interleukin-2 secretion of human peripheral blood mononuclear cells. *Toxicology Letters [Toxicol. Lett.]. Vol. 158, no. 1, pp. 30-38. Jul 2005.*Rejection Code: IN VITRO.
- 789. Lima de Souza, Debora, Frisch, Benoit, Duportail, Guy, and Schuber, Francis (2002). Membrane-active properties of [alpha]-MSH analogs: aggregation and fusion of liposomes triggered by surface-conjugated peptides. *Biochimica et Biophysica Acta (BBA) Biomembranes* 1558: 222-237. Rejection Code: METHODS.
- 790. Littrell, E. E. (1986). Mortality of American Wigeon on a Golf Course Treated with the Organophosphate, Diazinon. *Calif.Fish Game* 72: 122-124.

  <u>Rejection Code</u>: SURVEY.
- 791. Litzinger, David C. and Huang, Leaf (1992). Phosphatodylethanolamine liposomes: drug delivery, gene transfer and immunodiagnostic applications. *Biochimica et Biophysica Acta (BBA) Reviews on Biomembranes* 1113: 201-227.

  Rejection Code: METHODS.
- 792. Liu, B., McConnell, L. L., and Torrents, A. (2002). Herbicide and Insecticide Loadings from the Susquehanna River to the Northern Chesapeake Bay. *Journal of Agricultural and Food Chemistry [J. Agric. Food Chem.]. Vol. 50, no. 15, pp. 4385-4392. 17 Jul 2002.*Rejection Code: NO TOX DATA.
- 793. Liu, Z. W., Han, Z. J., and Zhang, L. C. (2002). Cross Resistance of Methamidophos Resistant Strain of Brown Planthopper and the Biochemical Mechanism Responsible. *Acta Entomol.Sin.* 45: 447-452 (CHI) (ENG ABS).
  <u>Rejection Code</u>: NON-ENGLISH.
- 794. Lloyd, J. E. and Matthysse, J. G. (1971). Residues of Dichlorvos, Diazinon, and Dimetilan in Milk of Cows fed Pvc-Insecticide Feed Additives. *J.Econ.Entomol.* 64 (4): 821-822.
  - ; Habitat: T; Effect Codes: ACC
- 795. LLOYD JE, KUMAR, R., and WAGGONER JW (1993). EVALUATION OF MAX-CON AND OPTIMIZER EAR TAGS APPLIED AT 2 TAGS PER ANIMAL FOR CONTROL OF CATTLE LICE WYOMING 1992. BURDITT, A. K. JR. (ED.). INSECTICIDE & ACARICIDE TESTS, VOL. 18. II+405P. ENTOMOLOGICAL SOCIETY OF AMERICA: LANHAM, MARYLAND, USA.; 0 (0). 1993. 357-358.

  Rejection Code: ABSTRACT.
- 796. Lo, P. L. (2004). Toxicity of Pesticides to Halmus chalybeus (Coleoptera: Coccinellidae) and the Effect of Three Fungicides on Their Densities in a Citrus Orchard. *N.Z.J.Crop Hortic.Sci.* 32: 69-76.
  - ; Habitat: T; Effect Codes: MOR
- 797. Loague, K., Miyahira, R. N., Green, R. E., Oki, D. S., Giambelluca, T. W., and Schneider, R. C. (1995). Chemical leaching near the Waiawa Shaft, Oahu, Hawaii: 2. Modeling results. *Ground Water [GROUND WATER]. Vol. 33, no. 1, pp. 124-138. 1995.*

Rejection Code: FATE.

- 798. LOCKE JC and LUMSDEN RD (1989). COMPATIBILITY OF SOME COMMONLY USED SOIL DRENCH FUNGICIDES AND INSECTICIDES WITH THE BIOCONTROL AGENT GLIOCLADIUM-VIRENS. ANNUAL MEETING OF THE AMERICAN PHYTOPATHOLOGICAL SOCIETY, RICHMOND, VIRGINIA, USA, AUGUST 20-24, 1989. PHYTOPATHOLOGY; 79 1152. Rejection Code: ABSTRACT.
- 799. Lockridge, Oksana, Duysen, Ellen G., Voelker, Troy, Thompson, Charles M., and Schopfer, Lawrence M. (2005). Life without acetylcholinesterase: the implications of cholinesterase inhibitor toxicity in AChE-knockout mice: The Ninth Meeting of the International Neurotoxicology Association (INA). *Environmental Toxicology and Pharmacology* 19: 463-469.

  Rejection Code: NO TOX DATA.
- 800. Loeb, H. A. and Kelly, W. H. (1963). Acute Oral Toxicity of 1,496 Chemicals Force-fed to Carp. *U.S.Fish.Wildl.Serv.*, *Sp.Sci.Rep.-Fish.No.471*, *Washington*, *D.C.* 124 p.
  - ; Habitat: A; Effect Codes: MOR, BEH
- 801. London, Erwin (1992). Diphtheria toxin: membrane interaction and membrane translocation. *Biochimica et Biophysica Acta (BBA) Reviews on Biomembranes* 1113: 25-51.

  <u>Rejection Code</u>: METHODS.
- 802. LONG, J. LA, HOUSE WA, PARKER, A., and RAE JE (1998). Micro-organic compounds associated with sediments in the Humber rivers. SCIENCE OF THE TOTAL ENVIRONMENT; 210-211 229-253.
  Rejection Code: SURVEY.
- 803. LOPEZ-AVILA, V., YOUNG, R., and BECKERT WF (1997). On-line determination of organophosphorus pesticides in water by solid-phase microextraction and gas chromatography with thermionic-selective detection. *HRC JOURNAL OF HIGH RESOLUTION CHROMATOGRAPHY*; 20 487-492.

  Rejection Code: METHODS.
- 804. Lord, K. A., Briggs, G. G., Neale, M. C., and Manlove, R. (1980). Uptake of Pesticides from Water and Soil by Earthworms. *Pestic.Sci.* 11: 401-408.
  - ; Habitat: T; Effect Codes: ACC
- 805. Loura, Luis M. S., Fedorov, Aleksandre, and Prieto, Manuel (2001). Exclusion of a cholesterol analog from the cholesterol-rich phase in model membranes. *Biochimica et Biophysica Acta (BBA) Biomembranes* 1511: 236-243.

  <u>Rejection Code</u>: METHODS.
- 806. Loura, Luis M. S., Fedorov, Aleksandre, and Prieto, Manuel (2000). Partition of membrane probes in a gel/fluid two-component lipid system: a fluorescence resonance energy transfer study. *Biochimica et Biophysica Acta (BBA) Biomembranes* 1467: 101-112.

  Rejection Code: METHODS.
- 807. Lourens, J. H. M. and Lyaruu, D. M. (1979). Susceptibility of Some East African Strains of Rhipicephalus appendiculatus to Cholinesterase Inhibiting Acaricides. *PANS (Pest Artic.News Summ.)* 25: 135-142.
  - ; Habitat: T; Effect Codes: MOR

- 808. LOVATT, J. (1991). GROWING PUMPKINS GRAMMAS AND WATERMELONS IN QUEENSLAND. LOVATT, J. GROWING PUMPKINS, GRAMMAS AND WATERMELONS IN QUEENSLAND. IV+44P. QUEENSLAND DEPARTMENT OF PRIMARY INDUSTRIES: BRISBANE, QUEENSLAND, AUSTRALIA. ILLUS. PAPER. ISBN 0-7242-3995-2.; 0 IV+44P. Rejection Code: NO TOX DATA.
- 809. Lovatt, J. (1991). Growing Pumpkins Grammas and Watermelons in Queensland. *In: J.Lovatt, Growing Pumpkins, Grammas and Watermelons in Queensland, Queensland Dep. of Primary Ind., Brisbane, Queensland, Australia* 44 p.

  Rejection Code: REFS CHECKED/REVIEW.
- 810. LOVELL RA, MCCHESNEY DG, and PRICE WD (1996). Organohalogen and organophosphorus pesticides in mixed feed rations: Findings from FDA's domestic surveillance during fiscal years 1989-1994. *JOURNAL OF AOAC INTERNATIONAL*; 79 544-548. Rejection Code: HUMAN HEALTH.
- 811. Lowden, G. F., Saunders, C. L., and Edwards, R. W. (1969). Organo-Chlorine Insecticides in Water Part II. *Water Treat.Exam.* 18: 275-287.

  Rejection Code: EFFLUENT.
- 812. Lown, J. William and Mclaughlin, Larry W. (1979). Nitrosourea-induced DNA single-strand breaks. *Biochemical Pharmacology* 28: 1631-1638. <u>Rejection Code</u>: IN VITRO.
- 813. Lu Chensheng, Irish, R. M., and Fenske, R. A. (2003). Biological monitoring of diazinon exposure using saliva in an animal model. *Journal of Toxicology and Environmental Health, Part A: Current Issues [J. Toxicol. Environ. Health, A: Curr. Iss.]. Vol. 66, no. 24, pp. 2315-2325. 26 Dec 2003.* Rejection Code: SURVEY.
- 814. Ludemann, D. and Neumann, H. (1961). Action of Modern Insecticides on the Organisms in Freshwater (Versuche über die Acute Toxische Wirkung Neuzeitlicher Kontaktinsektizide auf Susswassertiere). Z.Angew.Zool. 48: 87-96 (GER) (ENG ABS).
  - ; Habitat: A; Effect Codes: ACC, MOR
- 815. Ludemann, D. and Neumann, H. (1960). Acute Toxicity of Modern Contact Insecticides to Carp. *Z.Angew.Zool.47:11-33 (GER)*.
  - ; Habitat: A; Effect Codes: MOR
- 816. Ludemann, D. and Neumann, H. (1960). Studies on the Acute Toxicity of Modern Contact Insecticides in Fresh Water. II. *Z.Angew.Zool.* 47: 303-321 (GER) (ENG ABS).
  - ; Habitat: A; Effect Codes: MOR
- 817. Ludemann, D. and Neumann, H. (1960). Studies on the Acute Toxicity of Modern Contact Insecticides in Fresh Water. III. Chironomid Larvae. *Z.Angew.Zool.* 47: 493-505 (GER).
  - ; Habitat: A; Effect Codes: MOR
- 818. Ludemann, D. and Neumann, H. (1962). Über die Wirkung der Neuzeitlichen Kontaktinsektizide auf die Tiere des Subwassers. *Anz.Schaedlingskd.Pflanzenschutz* 35: 5-9 (GER).
  - ; Habitat: A; Effect Codes: MOR

819. Lydy, M. J. and Austin, K. R. (2005). Toxicity Assessment of Pesticide Mixtures Typical of the Sacramento-San Joaquin Delta Using Chironomus tentans. *Arch.Environ.Contam.Toxicol.* 48: 49-55.

; Habitat: A; Effect Codes: MOR

820. M. Afonso, Carlos, Teresa Barros, M., S. Godinho, Licio, and D. Maycock, Christopher (1994). The mechanism of the Mitsunobu azide modification and the effect of additives on the rate of hydroxyl group activation. *Tetrahedron* 50: 9671-9678.

Rejection Code: METHODS.

821. Maas, J. L. (1982). Toxicity of Pesticides. *Rep.No.82, Lab.for Ecotoxicol., Inst.for Inland Water Manag.and Waste Water Treatment* 15: 4 p.(DUT).

; Habitat: A; Effect Codes: MOR

- 822. Mac-Rae, I. C. and Celo, Jovenia S. (1974). The effects of organo-phosphorus pesticides on the respiration of Azotobacter vinelandii. *Soil Biology and Biochemistry* 6: 109-111.

  Rejection Code: BACTERIA.
- 823. MACALADY DL and WOLFE NL (1985). EFFECTS OF SEDIMENT SORPTION AND ABIOTIC HYDROLYSES 1. ORGANOPHOSPHOROTHIOATE ESTERS. *J AGRIC FOOD CHEM*; 33 167-173.

  Rejection Code: FATE.
- 824. MacCuaig, R. D. (1963). The Toxicity of Some Insecticidal Sprays to Adult Locusts. *Bull.Entomol.Res.* 53: 597-608.

; Habitat: T

825. MacCuaig, R. D. (1960). The Toxicity of Some Insecticides to Fifth-Instar Nymphs of the Desert Locust. *Ann.Appl.Biol.* 48: 323-335.

; Habitat: T; Effect Codes: MOR,GRO

826. Macek, K. J. (1975). Acute Toxicity of Pesticide Mixtures to Bluegills. *Bull.Environ.Contam.Toxicol.* 14: 648-651.

Rejection Code: MIXTURE.

827. Machin, A. F., Quick, M. P., Rogers, H., and Anderson, P. H. (1971). The Conversion of Diazinon to Hydroxydiazinon in the Guinea-Pig and Sheep. *Bull.Environ.Contam.Toxicol.* 6: 26-27.

; Habitat: T; Effect Codes: BCM

- 828. MacIntosh, D. L., Spengler, J. D., Oezkaynak, H., Tsai Ling-hui, and Ryan, P. B. (1996). Dietary exposures to selected metals and pesticides. *Environmental Health Perspectives [ENVIRON. HEALTH PERSPECT.]. Vol. 104, no. 2, pp. 202-209. 1996.*Rejection Code: HUMAN HEALTH.
- 829. MACIVER DR, KEANE PA, JONES DG, and JONES AG (1997). Pyrethrins and piperonyl butoxide as public health insecticides. *PYRETHRUM POST*; 20 3-46.

  <u>Rejection Code</u>: REVIEW.
- 830. MacKenzie, K. E. and Winston, M. L. (1989). The Effects of Sublethal Exposure to Diazinon, Carbaryl and Resmethrin on Longevity and Foraging in Apis mellifera L. *Apidologie* 20: 29-40.

- ; Habitat: T; Effect Codes: MOR, BEH
- 831. Mackness, B., Durrington, P. N., and Mackness, M. I. (2000). Low Paraoxonase in Persian Gulf War Veterans Self-Reporting Gulf War Syndrome. *Biochemical and Biophysical Research Communications [Biochem. Biophys. Res. Commun.]. Vol. 276, no. 2, pp. 729-733. 24 Sep 2000.* Rejection Code: HUMAN HEALTH.
- 832. MacPhee, C. and Ruelle, R. (1969). Lethal Effects of 1888 Chemicals upon Four Species of Fish From Western North America. *Bull.No.3, Forest, Wildl.and Range Exp.Stn., Univ. of Idaho, Moscow, ID* 112 p.
  - ; Habitat: A; Effect Codes: MOR, BEH
- 833. Madhukar, B. V. and Matsumura, F. (1979). Comparison of Induction Patterns of Rat Hepatic Microsomal Mixed-Function Oxidases by Pesticides and Related Chemicals. *Pestic.Biochem.Physiol.* 11: 301-308.
  - ; Habitat: T; Effect Codes: BCM
- 834. Maezawa, Shigenori and Yoshimura, Tetsuro (1991). Sequence of critical events involved in fusion of phospholipid vesicles induced by clathrin. *Biochimica et Biophysica Acta (BBA) Biomembranes* 1070: 429-436.

  Rejection Code: METHODS.
- 835. MAGARA, Y., AIZAWA, T., KUNIKANE, S., ITOH, M., KOHKI, M., KAWASAKI, M., and TAKEUTI, H. (1996). The behavior of inorganic constituents and disinfection by products in reverse osmosis water desalination process. *WATER SCIENCE AND TECHNOLOGY; 34* 141-148. Rejection Code: METHODS.
- 836. Maggio, Bruno and Yu, Robert K. (1992). Modulation by glycosphingolipids of membrane-membrane interactions induced by myelin basic protein and melittin. *Biochimica et Biophysica Acta (BBA) Biomembranes* 1112: 105-114.

  Rejection Code: METHODS.
- 837. MAHER IL, FOSTER GD, and LIPPA KA (1995). TRANSPORT FLUXES OF ORGANONITROGEN AND ORGANOPHOSPHORUS PESTICIDES IN THE POTOMAC RIVER. 210TH AMERICAN CHEMICAL SOCIETY NATIONAL MEETING, CHICAGO, ILLINOIS, USA, AUGUST 20-24, 1995. ABSTRACTS OF PAPERS AMERICAN CHEMICAL SOCIETY; 210 ENVR 81.

  Rejection Code: FATE.
- 838. Maier, Olaf, Oberle, Volker, and Hoekstra, Dick (2002). Fluorescent lipid probes: some properties and applications (a review). *Chemistry and Physics of Lipids* 116: 3-18.

  <u>Rejection Code</u>: METHODS.
- 839. Mailman, R. B. and Hodgson, E. (1972). The Cytochrome P-450 Substrate Optical Difference Spectra of Pesticides with Mouse Hepatic Microsomes. *Bull.Environ.Contam.Toxicol.* 8: 186-192.
  - ; Habitat: T
- 840. Majewski, M. S., Foreman, W. T., Goolsby, D. A., and Nakagaki, N. (1998). Airborne Pesticide Residues along the Mississippi River. *Environmental Science & Technology [Environ. Sci. Technol.]. Vol.* 32, no. 23, pp. 3689-3698. 1 Dec 1998. Rejection Code: SURVEY.

- 841. Majewski, M. S., Foreman, W. T., Goolsby, D. A., and Nakagaki, N. (1998). Airborne Pesticide Residues Along the Mississippi River. *Environ.Sci.Technol.* 32: 3689-3698.

  <u>Rejection Code</u>: SURVEY.
- 842. Malone, C. R. (1969). Effects of Diazinon Contamination on an Old-Field Ecosystem. *Am.Midl.Nat.* 82: 1-27.

  Rejection Code: NO TOX DATA.
- 843. Malone, C. R. and Blaylock, B. G. (1970). Toxicity of Insecticide Formulations to Carp Embryos Reared In Vitro. *J.Wildl.Manag.* 34: 460-463.
  - ; Habitat: A; Effect Codes: MOR
- 844. Mandieau, V., Martin, I., and Ruysschaert, J. M. (1995). Interaction between cardiolipin and the mitochondrial presequence of cytochrome c oxidase subunit IV favours lipid mixing without destabilizing the bilayer structure. *FEBS Letters* 368: 15-18. Rejection Code: METHODS.
- 845. Mani, M. and Thontadarya, T. S. (1988). Studies on the Safety of Different Pesticides to the Grape Mealybug Natural Enemies, Anagyrus dactylopii (How.) and Scymnus coccivora Ayyar. *Indian J.Plant Prot.* 16: 205-210.
  - ; Habitat: T
- 846. Mankame, T., Hokanson, R., Fudge, R., Chowdhary, R., and Busbee, D. (2006). Altered gene expression in human cells treated with the insecticide diazinon: Correlation with decreased DNA excision repair capacity. *Human and Experimental Toxicology*, 25 (2) pp. 57-65, 2006.

  Rejection Code: HUMAN HEALTH.
- 847. Manna, B. (1991). Influence of Diazinon and Fenitrothion on Acetylcholinesterase Activity in Digestive Gland and Central Nervous System of Achatina fulica. *Environ.Ecol.* 9: 594-599.
  - ; Habitat: T; Effect Codes: BCM
- 848. Mansingh, A., Robinson, D. E., Henry, C., and Lawrence, V. (2000). Pesticide contamination of Jamaican environment. II. Insecticide residues in the rivers and shrimps of Rio Cobre Basin, 1982-1996.

  \*\*Environmental Monitoring and Assessment [Environ. Monit. Assess.]. Vol. 63, no. 3, pp. 459-480. Aug 2000.

  \*\*Rejection Code: SURVEY.
- 849. Mansingh, A. and Wilson, A. (1995). Insecticide contamination of Jamaican environment 3. Baseline studies on the status of insecticidal pollution of Kingston Harbour. *Marine Pollution Bulletin [MAR. POLLUT. BULL.]. Vol. 30, no. 10, pp. 640-645. 1995.*Rejection Code: SURVEY.
- 850. Mansingh, Ajai and Wilson, Arlene (1995). Insecticide contamination of Jamaican environment III.

  Baseline studies on the status of insecticidal pollution of Kingston Harbour. *Marine Pollution Bulletin* 30: 640-645.

  Rejection Code: SURVEY.
- 851. Mansour, M., Feicht, E. A., Behechti, A., and Scheunert, I. (1997). Experimental approaches to studying the photostability of selected pesticides in water and soil: Experimental and Theoretical Approaches in Environmental Chemistry. *Chemosphere* 35: 39-50. Rejection Code: METHODS.

- 852. Mansour, M., Feicht, E. A., Behechti, A., Schramm, K. W., and Kettrup, A. (1999). Determination Photostability of Selected Agrochemicals in Water and Soil. *Chemosphere* 39: 575-585.
  - ; Habitat: A; Effect Codes: PHY
- 853. MANSOUR, M., FEICHT EA, BEHECHTI, A., and SCHEUNERT, I. (1997). Experimental approaches to studying the photostability of selected pesticides in water and soil. *CHEMOSPHERE*; 35 39-50.

  Rejection Code: FATE.
- 854. MANSOUR, M. and MEALLIER, P. (1989). ABIOTIC DEGRADATION OF PESTICIDES IN WATER AND SOILS. 197TH AMERICAN CHEMICAL SOCIETY NATIONAL MEETING, DALLAS, TEXAS, USA, APRIL 9-14, 1989. ABSTR PAP AM CHEM SOC; 197 AGRO 69.

  Rejection Code: FATE.
- 855. Mansour, S. A. (1987). Is it Possible to Use the Honey Bee Adult as a Bioindicator for the Detection of Pesticide Residues in Plants? *Acta Biol.Hung.* 38: 69-76.
  - ; Habitat: T; Effect Codes: MOR, ACC
- 856. Mansour, S. A., Ali, A. D., and Al-Jalili, M. K. (1984). The Residual Toxicity to Honeybees of Some Insecticides on Clover Flowers: Laboratory Studies. *J.Apic.Res.* 23: 213-216.
  - ; Habitat: T; Effect Codes: MOR
- 857. Marganian, V. M. Jr. (1972). Dursban and Diazinon Residues in Biota Following Treatment of Intertidal Plots on Cape Cod 1967-69. *Pestic.Monit.J.* 6: 160-165.
  - ; Habitat: A; Effect Codes: ACC, MOR
- 858. Margot, A. and Gysin, H. (1957). Diazinon, seine Zersetzungsprodukte und ihre Eigenschaften. *Helv.Chim.Acta* 40: 1562-1573 (GER). Rejection Code: NON-ENGLISH.
- 859. Marinovich, M., Ghilardi, F., and Galli, C. L. (1996). Effect of pesticide mixtures on in vitro nervous cells: Comparison with single pesticides. *Toxicology. Vol. 108, no. 3, pp. 201-206. Apr 1996.*Rejection Code: IN VITRO.
- 860. Marinovich, M., Guizzetti, M., and Galli, C. L. (1994). Mixtures of benomyl, pirimiphos-methyl, dimethoate, diazinon and azinphos-methyl affect protein synthesis in HL-60 cells differently. *Toxicology* 94: 173-185.

  Rejection Code: HUMAN HEALTH, IN VITRO.
- 861. Marinovich, M., Guizzetti, M., and Galli, C. L. (1994). Mixtures of benomyl, pirimiphos-methyl, dimethoate, diazinon and azinphos-methyl affect protein synthesis in HL-60 cells differently. *Toxicology. Vol. 94, no. 1-3, pp. 173-185. 1994*.

  Rejection Code: HUMAN HEALTH.
- 862. MARSHALL MR, MOYE HA, and LORE EL (1997). AQUEOUS BASED SOLVENT SYSTEMS WITH SOLID PHASE EXTRACTION DISKS FOR THE EXTRACTION OF MODERATELY SOLUBLE PESTICIDES FROM MARINE TISSUES. 214TH AMERICAN CHEMICAL SOCIETY NATIONAL MEETING, LAS VEGAS, NEVADA, USA, SEPTEMBER 7-11, 1997. ABSTRACTS OF PAPERS AMERICAN CHEMICAL SOCIETY; 214 AGRO 119. Rejection Code: ABSTRACT.

- 863. Martin, N. A. (1986). Toxicity of Pesticides to Allolobophora caliginosa (Oligochaeta: Lumbricidae). *N.Z.J.Agric.Res.* 29: 699-706.
  - ; Habitat: T; Effect Codes: GRO, MOR, REP
- 864. Martin, N. A., Workman, P. J., and Butler, R. C. (2003). Insecticide Resistance in Onion Thrips (Thrips tabaci) (Thysanoptera: Thripidae). *N.Z.J.Crop Hortic.Sci.* 31: 99-106.
  - ; Habitat: T; Effect Codes: MOR
- 865. Martinez-Bazenet, Chantal, Audigier-Petit, Colette, Frot-Coutaz, Jacques, Got, Rene, Nicolau, Claude, and Letoublon, Robert (1988). Protein-mediated fusion of liposomes with microsomal membranes of Aspergillus niger: evidence for a complex mechanism dealing with membranous and cytosolic fusogenic proteins. *Biochimica et Biophysica Acta (BBA) Biomembranes* 943: 35-42. Rejection Code: METHODS.
- 866. MARUYA KA, LOGANATHAN BG, KANNAN, K., MCCUMBER-KAHN, S., and LEE RF (1997).

  Organic and organometallic compounds in estuarine sediments from the Gulf of Mexico (1993-1994). *ESTUARIES*; 20 700-709.

  Rejection Code: SURVEY.
- 867. Massari, Stefano and Colonna, Raffaele (1986). Lipid miscibility and size increase of vesicles composed of two phosphatidylcholines. *Biochimica et Biophysica Acta (BBA) Biomembranes* 863: 264-276. Rejection Code: METHODS.
- 868. Matin, M. A., Agarwal, R., and Mirza, M. A. (1988). Distribution of pp'DDT in certain brain regions of rats treated with diazinon. *Arhiv za Higijenu Rada I Toksikologiju/Archives of Industrial Hygiene and. Vol. 39, no. 4, pp. 365-369. 1988.*Rejection Code: MIXTURE.
- 869. MATIN MA and HUSAIN, K. (1987). NEUROCHEMICAL CHANGES AND BEHAVIORAL EFFECTS INDUCED BY DIAZINON IN ANIMALS. ELEVENTH MEETING OF THE INTERNATIONAL SOCIETY FOR NEUROCHEMISTRY AND THE EIGHTEENTH MEETING OF THE AMERICAN SOCIETY FOR NEUROCHEMISTRY, LA GUAIRA, VENEZUELA, MAY 31-JUNE 5, 1987. J NEUROCHEM; 48 S94.

  Rejection Code: ABSTRACT.
- 870. Matsuo, K. and Tamura, T. (1970). Laboratory Experiments on the Effect of Insecticides Against Blackfly Larvae (Diptera: Simuliidae) and Fishes. *Sci.Pest Control/Botyu-Kagaku* 35: 125-130.
  - ; Habitat: A; Effect Codes: MOR
- 871. Matsuoka, A., Hayashi, M., and Ishidates, Jr. M. (1979). Chromosomal aberration tests on 29 chemicals combined with S9 mix in vitro. *Mutation Research/Genetic Toxicology* 66: 277-290. Rejection Code: IN VITRO.
- 872. Matsuzaki, K., Yoneyama, S., Murase, O., and Miyajima, K. (1996). Transbilayer transport of ions and lipids coupled with mastoparan X translocation. *Biochemistry (Washington) [BIOCHEMISTRY (WASH.)]. Vol. 35, no. 25, pp. 8450-8456. 1996.*Rejection Code: METHODS.
- 873. Matsuzaki, Katsumi (1998). Magainins as paradigm for the mode of action of pore forming polypeptides. Biochimica et Biophysica Acta (BBA) - Reviews on Biomembranes 1376: 391-400. Rejection Code: METHODS.

- 874. Matsuzaki, Katsumi, Murase, Osamu, Sugishita, Ken&rsquo, ichi, Yoneyama, Shuji, Akada, Ken&rsquo, ya, Ueha, Mayu, Nakamura, Akemi, and Kobayashi, Satoe (2000). Optical characterization of liposomes by right angle light scattering and turbidity measurement. *Biochimica et Biophysica Acta (BBA) Biomembranes* 1467: 219-226.

  Rejection Code: METHODS.
- 875. Matthysse, J. G. and Lisk, D. (1968). Residues of Diazinon, Coumaphos, Ciodrin, Methoxychlor, and Rotenone in Cow's Milk from Treatments Similar to Those Used for Ectoparasite and Fly Control on Dairy Cattle, with Notes on Safety of Diazinon and Ciodrin to Calves. *J.Econ.Entomol.* 61: 1394-1398.
  - ; Habitat: T; Effect Codes: ACC
- 876. Mattjus, Peter, Bittman, Robert, Vilcheze, Catherine, and Peter Slotte, J. (1995). Lateral domain formation in cholesterol/phospholipid monolayers as affected by the sterol side chain conformation. *Biochimica et Biophysica Acta (BBA) - Biomembranes* 1240: 237-247.

  Rejection Code: METHODS.
- 877. Mattjus, Peter, Hedstrom, Gun, and Slotte, J. Peter (1994). Monolayer interaction of cholesterol with phosphatidylcholines: effects of phospholipid acyl chain length. *Chemistry and Physics of Lipids* 74: 195-203.

  Rejection Code: METHODS.
- 878. MAYER AS, IMHOFF PT, MITCHELL RJ, RABIDEAU AJ, MCBRIDE JF, and MILLER CT (1994). FATE AND EFFECTS OF POLLUTANTS GROUNDWATER QUALITY. WATER ENVIRONMENT RESEARCH; 66 532-585.

  Rejection Code: FATE.
- 879. MAYER AS, MITCHELL RJ, CARRIERE, P. PE, HEIN GL, RABIDEAU AJ, and WOJICK CL (1995). GROUNDWATER QUALITY. *WATER ENVIRONMENT RESEARCH*; 67 629-685. Rejection Code: REVIEW, FATE.
- 880. Mayer, F. L. Jr. (1987). Acute Toxicity Handbook of Chemicals to Estuarine Organisms. *EPA 600/8-87-017, U.S.EPA, Gulf Breeze, FL* 274p.

  Rejection Code: REFS CHECKED/REVIEW.
- 881. Mayer, F. L. Jr. (1974). Pesticides as Pollutants. *In: B.G.Liptak (Ed.), Environmental Engineer's Handbook, Chilton Book Co., Radnor, PA* 405-418 (Publ in Part As 6797).
  - ; Habitat: A; Effect Codes: MOR
- 882. Mayer, F. L. Jr. and Ellersieck, M. R. (1986). Manual of Acute Toxicity: Interpretation and Data Base for 410 Chemicals and 66 Species of Freshwater Animals. *Resour.Publ.No.160*, *U.S.Dep.Interior*, *Fish Wildl.Serv.*, *Washington*, *DC* 505 p. (USGS Data File).
- 883. Mazidji, C. N., Koopman, B., Bitton, G., Voiland, G., and Logue, C. (1990). Use of Microtox and Ceriodaphnia Bioassays in Wastewater Fractionation. *Toxicity Assessment: An International Joint J.* 5: 265-277.

  Rejection Code: EFFLUENT.
- 884. McCann, J. A., Mertz, J. A., Czworkowski, J., and Picking, W. D. \*. (1997). Conformational changes in cholera toxin B subunit--ganglioside GM1 complexes are elicited by environmental pH and evoke changes in membrane structure. *Biochemistry (Washington) [BIOCHEMISTRY (WASH.)]. Vol.* 36, no. 30, pp. 9169-9178. Jul 1997.

- Rejection Code: METHODS.
- 885. McConnell, L. L., LeNoir, J. S., Datta, S., and Seiber, J. N. (1998). Wet Deposition of Current-Use Pesticides in the Sierra Nevada Mountain Range, California. *Environ.Toxicol.Chem.* 17: 1908-1916.

  Rejection Code: SURVEY.
- 886. MCCONNELL LL, LENOIR JS, DATTA, S., and SEIBER JN (1998). Wet deposition of current-use pesticides in the Sierra Nevada mountain range, California, USA. *ENVIRONMENTAL TOXICOLOGY AND CHEMISTRY; 17* 1908-1916.

  Rejection Code: FATE.
- 887. McGregor, D. B., Brown, A., Cattanach, P., Edwards, I., McBride, D., Riach, C., and Caspary, W. J. (88). <04 Article Title>. Environ.Mol.Mutagen. 12: <25 Page(s)>; Habitat: <40 Habitat Code>; Effect Codes: <08 Effects Code>.
- 888. MCGREGOR DB , BROWN, A., CATTANACH, P., EDWARDS, I., MCBRIDE, D., RIACH, C., and CASPARY WJ (1988). RESPONSES OF THE L5178Y TK-POSITIVE-TK-NEGATIVE MOUSE LYMPHOMA CELL FORWARD MUTATION ASSAY III. 72 CODED CHEMICALS. *ENVIRON MOL MUTAGEN*; 12 85-154.

  Rejection Code: IN VITRO.
- 889. McKee, P. W. and McWreath, H. C. (2002). Computed and Estimated Pollutant Loads, West Fork Trinity River, Fort Worth, Texas, 1997.

  Rejection Code: MODELING.
- 890. McLeay, M. J. and Hall, K. J. (1999). Monitoring Agricultural Drainage Ditches and the Receiving Water (Nicomekl River, Surrey, B.C.) for Toxicity to Ceriodaphnia dubia and Probable Cause due to Organophosphate Contamination. *Water Qual.Res.J.Can.* 34: 423-453. Rejection Code: EFFLUENT.
- 891. McLeay, M. J. and Hall, K. J. (1999). Monitoring Agricultural Drainage Ditches and the Receiving Water (Nicomekl River, Surrey, B.C.) for Toxicity to Ceriodaphnia dubia and Probable Cause due to Organophosphate Contamination. *Water Qual.Res.J.Can.* 34: 423-453. Rejection Code: EFFLUENT.
- 892. Medina, D., Prieto, A., Ettiene, G., Buscema, I., and Abreu de V, A. (1999). Persistence of Organophosphorus Pesticide Residues in Limon River Waters. *Bulletin of Environmental Contamination and Toxicology [Bull. Environ. Contam. Toxicol.]. Vol. 63, no. 1, pp. 0039-0044. Jul 1999.*Rejection Code: FATE.
- 893. Medina, D., Prieto, A., Ettiene, G., Buscerna, I., and Abreu, A. (1999). Persistence of Organophosphorus Pesticide Residues in Limon River Waters. *Bull.Environ.Contam.Toxicol.* 63: 39-44. <u>Rejection Code</u>: SURVEY.
- 894. MEGHARAJ, M., BOUL HL, and THIELE JH (1999). Effects of DDT and its metabolites on soil algae and enzymatic activity. *BIOLOGY AND FERTILITY OF SOILS*; 29 130-134.

  <u>Rejection Code</u>: NO COC.
- 895. Meier, E. P., Dennis, W. H., Rosencrance, A. B., Randall, W. F., Cooper, W. J., and Warner, M. C. (1979). Sulfotepp, a Toxic Impurity in Formulations of Diazinon. *Bull.Environ.Contam.Toxicol.* 23: 158-164.
  - ; Habitat: A; Effect Codes: MOR

- 896. Meng, Jun-cai, Fokin, Valery V., and Finn, M. G. (2005). Kinetic resolution by copper-catalyzed azide-alkyne cycloaddition. *Tetrahedron Letters* 46: 4543-4546.

  <u>Rejection Code</u>: METHODS.
- 897. Menzie, C. (1983). Acute Toxicity of Some Organophosphorus Pesticides Against Fish and Aquatics: Sumithion. *U.S.EPA-OPP Registration Standard*.
  - ; Habitat: A; Effect Codes: MOR
- 898. Mercier, D., Leboul, J., Cleophax, Jeanine, and Gero, S. D. (1971). Some ring-opening reactions of a diepoxide derived from (-)-quinic acid. *Carbohydrate Research* 20: 299-304. Rejection Code: METHODS.
- 899. Merino, G., Vazquez, V., and Soria, S. (1968). Efficacy of 9 Insecticides in the Fight Against Epitrix sp. in Potato Plantations in Ecuador. *Turrialba* 18: 68-70.
  - ; Habitat: T
- 900. Metso, Antti J., Zhao, Hongxia, Tuunainen, Ilkka, and Kinnunen, Paavo K. J. (2005). Observation of the main phase transition of dinervonoylphosphocholine giant liposomes by fluorescence microscopy. *Biochimica et Biophysica Acta (BBA) Biomembranes* 1713: 83-91.

  Rejection Code: METHODS.
- 901. MICHEL, F. C. JR, REDDY CA, and FORNEY LJ (1997). Fate of carbon-14 diazinon during the composting of yard trimmings. *JOURNAL OF ENVIRONMENTAL QUALITY*; 26 200-205. Rejection Code: FATE.
- 902. Mikulski, C. M., Pytlewski, L. L., and Karayannis, N. M. (1975). Metal dialkoxythiophosphates. *Journal of Inorganic and Nuclear Chemistry* 37: 2411-2416.

  Rejection Code: METHODS.
- 903. Mikulski, Chester M., Moore, Terrance, Smith, Yale, and Karayannis, Nicholas M. (1986). Addition and reaction products of triethyl thiophosphate and metal perchlorates at just over ambient and elevated temperatures. *Inorganica Chimica Acta* 115: 179-186.

  Rejection Code: METHODS.
- 904. Miles, J. R. W. (1976). Insecticide residues on stream sediments in Ontario, Canada. *Pestic. Monit. J. Vol.* 10, no. 3, pp. 87-91. 1976.

  Rejection Code: FATE.
- 905. Milhaud, J., Ponsinet, V., Takashi, M., and Michels, B. (2002). Interactions of the drug amphotericin B with phospholipid membranes containing or not ergosterol: new insight into the role of ergosterol. *Biochimica et Biophysica Acta (BBA) Biomembranes* 1558: 95-108.

  Rejection Code: METHODS.
- 906. Miller, B. E., Forcum, D. L., Weeks, K. W., Wheeler, J. R., and Rail, C. D. (1970). An Evaluation of Insecticides for Flea Control on Wild Mammals. *J.Med.Entomol.* 7: 697-702.
  - ; Habitat: T; Effect Codes: POP
- 907. Miller, C. W., Zuckerman, B. M., and Charig, A. J. (1966). Water Translocation of Diazinon-C14 and Parathion-S35 Off a Model Cranberry Bog and Subsequent Occurrence in Fish and Mussels. *Trans.Am.Fish.Soc.* 95: 345-349.
  - ; Habitat: A; Effect Codes: ACC, MOR

- 908. Mineau, P., Collins, B. T., and Baril, A. (1996). On the Use of Scaling Factors to Improve Interspecies Extrapolation of Acute Toxicity in Birds. *Regul.Toxicol.Pharmacol.* 24: 24-29. Rejection Code: MODELING.
- 909. MINELLI EV, ANGIONI, A., CABRAS, P., GARAU VL, MELIS, M., PIRISI FM, CABITZA, F., and CUBEDDU, M. (1996). Persistence of some pesticides in peach fruit. *ITALIAN JOURNAL OF FOOD SCIENCE*; 8 57-62.

  Rejection Code: FATE.
- 910. MINIST AGRIC FISH FOOD HEALTH SAF EXECUTIVE UK (1990). REPORT OF THE WORKING PARTY ON PESTICIDE RESIDUES 1988-89. MINISTRY OF AGRICULTURE FISHERIES AND FOOD HEALTH AND SAFETY EXECUTIVE. REPORT OF THE WORKING PARTY ON PESTICIDE RESIDUES: 1988-89. V+86P. HER MAJESTY'S STATIONERY OFFICE: LONDON, ENGLAND, UK. PAPER. ISBN 0-11-242902-5.; 0 V+86P. Rejection Code: SURVEY.
- 911. Misra, Debjani, Bhuyan, Sasmita, Adhya, T. K., and Sethunathan, N. (1992). Accelerated degradation of methyl parathion, parathion and fenitrothion by suspensions from methyl parathion-and p-nitrophenol-treated soils. *Soil Biology and Biochemistry* 24: 1035-1042.

  Rejection Code: FATE.
- 912. Mitchell, D. (1985). Bioassay Testing of Herbicide H2 and Insecticidal Soap/Diazinon with Rainbow Trout and Daphnia. *U.S.EPA-OPP Registration Standard*.
  - ; Habitat: A; Effect Codes: MOR
- 913. Mitsue Yasoshima and Yasusuke Masuda (1986). Effect of carbon disulfide on the anticholinesterase action of several organophosphorus insecticides in mice. *Toxicology Letters* 32: 179-184. Rejection Code: MIXTURE.
- 914. Mitsuhashi, J., Grace, T. D. C., and Waterhouse, D. F. (1970). Effects of Insecticides on Cultures of Insect Cells. *Entomol.Exp.Appl.* 13: 327-341.
  - ; Habitat: A; Effect Codes: MOR
- 915. Mitsuru Uchiyama, Takemi Yoshida, Keiko Homma, and Tsutomu Hongo (1975). Inhibition of hepatic drug-metabolizing enzymes by thiophosphate insecticides and its drug toxicological implications. *Biochemical Pharmacology* 24: 1221-1225.

  Rejection Code: IN VITRO.
- 916. Miyagi, I., Toma, T., ZAYASU, N., and TAKASHITA, Y. (1994). Insecticide Susceptibility of Culex quinquefasciatus Larvae (Diptera: Culicidae) in Okinawa Prefecture, Japan in 1989. *Jpn.J.Sanit.Zool.* 45: 7-11.

  <u>Rejection Code</u>: NO DURATION.
- 917. MIYAJIMA, A., SUNOUCHI, M., GUO X-B, OHNO, Y., and TAKANAKA, A. (1993). EFFECT OF ORGANOPHOSPHORUS COMPOUNDS AND THEIR METABOLITES ON RAT FRESHLY ISOLATED HEPATOCYTES. 20TH ANNUAL MEETING OF THE JAPANESE SOCIETY OF TOXICOLOGICAL SCIENCES, CHIBA, JAPAN, JULY 29-30, 1993. JOURNAL OF TOXICOLOGICAL SCIENCES; 18 417.

  Rejection Code: ABSTRACT.
- 918. MIYAMOTO, T. and YAMAMOTO, I. (1995). Inhibition of housefly glutathione S-transferase by chalcone and comparison of its isozymes with rat. *JOURNAL OF PESTICIDE SCIENCE*; 20 75-82.

- Rejection Code: IN VITRO.
- 919. MMOCHI AJ and MBEREK RS (1998). Trends in the types, amounts, and toxicity of pesticides used in Tanzania: Efforts to control pesticide pollution in Zanzibar, Tanzania. *AMBIO*; 27 669-676. Rejection Code: NO TOX DATA.
- 920. Mohamed, A. K. A., Pratt, J. P., and Nelson, F. R. S. (1987). Compatibility of Metarhizium anisopliae var. anisopliae with Chemical Pesticides. *Mycopathologia* 99: 99-105.
  - ; Habitat: T; Effect Codes: POP,REP
- 921. Mohn, Georges (1973). 5-Methyltryptophan resistance mutations in Escherichia coli K-12 mutagenic activity of monofunctional alkylating agents including organophosphorus insecticides. *Mutation Research/Fundamental and Molecular Mechanisms of Mutagenesis* 20: 7-15.

  Rejection Code: BACTERIA.
- 922. Molina, Pedro, Arques, Antonio, and Alias, Asuncion (1991). Preparation of fused [1,3,5] benzotriazepines by a tandem aza wittig/carbodiimide-mediated annelation reaction. *Tetrahedron Letters* 32: 2979-2982.

  Rejection Code: METHODS.
- 923. Molotkovsky, Julian G., Manevich, Yefim M., Babak, Vyacheslav I., and Bergelson, Lev D. (1984).

  Perylenoyl- and anthrylvinyl-labeled lipids as membrane probes. *Biochimica et Biophysica Acta* (*BBA*) *Biomembranes* 778: 281-288.

  Rejection Code: METHODS.
- 924. Moody, R. P., Parenteau, N. L., Ponec, M., Rovee, D. T., and Maibach, H. I. (1993). In vitro dermal absorption of pesticides: A cross-species comparison including testskin. Rejection Code: METHODS.
- 925. Moore, A. and Lower, N. (2001). The Impact of Two Pesticides on Olfactory-Mediated Endocrine Function in Mature Male Atlantic Salmon (Salmo salar L.) Parr. *Comp. Biochem. Physiol. B* 129: 269-276.
  - ; Habitat: A; Effect Codes: BCM,REP
- 926. Moore, A. and Waring, C. P. (1998). Mechanistic Effects of a Triazine Pesticide on Reproductive Endocrine Function in Mature Male Atlantic Salmon (Salmo salar L.) Parr. *Pestic.Biochem.Physiol.* 62: 41-50.
  - ; Habitat: A; Effect Codes: BCM,PHY,REP
- 927. Moorhouse, E. R., Gillespie, A. T., Sellers, E. K., and Charnley, A. K. (1989). The Compatibility of the Entomogenous Fungus, Metarhizium anisopliae with Horticultural Pesticides. *In: N.R.McFarlane, Br.Crop Prot.Counc., Monogr.No.43, Progress and Prospects in Insect Control, Int.Conf., Sept.18-20, 1989, Reading, England, U.K.* 251-252.

  Rejection Code: ABSTRACT.
- 928. Moorhouse, E. R., Gillespie, A. T., Sellers, E. K., and Charnley, A. K. (1989). The Compatibility of the Entomogenous Fungus, Metarhizium anisopliae with Horticultural Pesticides. *In: N.R.McFarlane, Br.Crop Prot.Counc., Monogr.No.43, Progress and Prospects in Insect Control, Int.Conf., Sept.18-20, 1989, Reading, England, U.K.* 251-252.

  Rejection Code: ABSTRACT.
- 929. MOORHOUSE ER, GILLESPIE AT, SELLERS EK, and CHARNLEY AK (1989). THE COMPATIBILITY OF THE ENTOMOGENOUS FUNGUS METARHIZIUM-ANISOPLIAE

WITH HORTICULTURAL PESTICIDES. *MCFARLANE*, N. R. (ED.). BRITISH CROP PROTECTION COUNCIL MONOGRAPH, NO. 43. PROGRESS AND PROSPECTS IN INSECT CONTROL; INTERNATIONAL CONFERENCE, READING, ENGLAND, UK, SEPTEMBER 18-20, 1989. XI+273P. BRITISH CROP PROTECTION COUNCIL: SURREY, ENGLAND, UK. ILLUS. PAPER. ISBN 0-948404-32-9.; 0 (0). 1989. 251-252. Rejection Code: ABSTRACT.

- 930. MOORMAN TB (1989). A REVIEW OF PESTICIDE EFFECTS ON MICROORGANISMS AND MICROBIAL PROCESSES RELATED TO SOIL FERTILITY. *J PROD AGRIC*; 2 14-23. Rejection Code: REVIEW.
- 931. Morales, Rogelio and Fernandez, Marta S. (2002). Interfacial Activation of Porcine Pancreatic Phospholipase A2 Studied with 7-Nitrobenz-2-oxa-1,3-diazol-4-yl-Labeled Lipids. *Archives of Biochemistry and Biophysics* 398: 221-228. Rejection Code: METHODS.
- 932. Moreland D. E., Corbin F. T., Fleischmann T. J., and Mcfarland J. E. (1995). Partial Characterization of Microsomes Isolated from Mung Bean Cotyledons. *Pesticide Biochemistry and Physiology* 52: 98-108. Rejection Code: IN VITRO.
- 933. Moreland D. E., Corbin F. T., and Mcfarland J. E. (1993). Effects of Safeners on the Oxidation of Multiple Substrates by Grain Sorghum Microsomes. *Pesticide Biochemistry and Physiology* 45: 43-53. Rejection Code: METABOLISM.
- 934. Moreland D. E., Corbin F. T., and Mcfarland J. E. (1993). Oxidation of Multiple Substrates by Corn Shoot Microsomes. *Pesticide Biochemistry and Physiology* 47: 206-214.

  <u>Rejection Code</u>: IN VITRO.
- 935. Morgan, M. K., Stout, D. M. II, and Wilson, N. K. (2001). Feasibility Study of the Potential for Human Exposure to Pet-Borne Diazinon Residues Following Lawn Applications. *Bulletin of Environmental Contamination and Toxicology [Bull. Environ. Contam. Toxicol.]. Vol. 66, no. 3, pp. 295-300. Mar 2001.*Rejection Code: HUMAN HEALTH.
- 936. Moriarty, Robert M. and Khosrowshahi, Jaffar S. (1986). A versatile synthesis of vicinal diazides using hypervalent iodine. *Tetrahedron Letters* 27: 2809-2812.

  Rejection Code: METHODS.
- 937. Morishita, M. (2001). Toxicity of Some Insecticides to Larvae of Flankliniella occidentalis (Pergande) (Thysanoptera: Thripidae) Evaluated by the Petri Dish-Spraying Tower Method. *Appl.Entomol.Zool.* 36: 137-141.
  - ; Habitat: T; Effect Codes: MOR
- 938. MORITA, M., YOSHINAGA, J., MUKAI, H., AMBE, Y., TANAKA, A., and SHIBATA, Y. (1997). Specimen banking at National Institute for Environmental Studies, Japan. *CHEMOSPHERE*; *34* 1907-1919. Rejection Code: NO TOX DATA.
- 939. Morita, Tomotsu and Lemone Yielding, K. (1977). Induction of respiratory deficient mutants in Saccharomyces cerevisiae by mono- and diazido analogs of ethidium. *Mutation Research/Fundamental and Molecular Mechanisms of Mutagenesis* 56: 21-30. Rejection Code: NO COC.

- 940. Moritoki, H., Shinohara, Y., Yamauchi, M., and Ishida, Y. (1978). Effects of Cholinesterase Inhibitors on the Spasmogenic Action of Acetate Esters on Rat Uterus. *Eur.J.Pharmacol.* 47: 95-102. Rejection Code: IN VITRO.
- 941. Morris, Stephen J., Bradley, Diane, and Blumenthal, Robert (1985). The use of cobalt ions as a collisional quencher to probe surface charge and stability of fluorescently labeled bilayer vesicles. *Biochimica et Biophysica Acta (BBA) - Biomembranes* 818: 365-372.

  Rejection Code: METHODS.
- 942. Morrissey, B. F., Harter, L. C., Cropley, J. M., and Burgess, J. L. (2004). Residential Phaseout of Chlorpyrifos and Diazinon: Reductions in Reported Human Exposure Cases in Washington State.

  Journal of Toxicology: Clinical Toxicology [J. Toxicol.: Clin. Toxicol.]. Vol. 42, no. 5, p. 806.

  Aug 2004.

  Rejection Code: HUMAN HEALTH.
- 943. Moscioni, A. David, Engel, Judith L., and Casida, John E. (1977). Kynurenine formamidase inhibition as a possible mechanism for certain teratogenic effects of organophosphorus and methylcarbamate insecticides in chicken embryos. *Biochemical Pharmacology* 26: 2251-2258.

  Rejection Code: REVIEW.
- 944. Moser, V. C. (1995). Comparisons of the Acute Effects of Cholinesterase Inhibitors Using a Neurobehavioral Screening Battery in Rats. *Neurotoxicol.Teratol.* 17: 617-625.
  - ; Habitat: T; Effect Codes: BEH,PHY
- 945. Moser, V. C., Casey, M., Hamm, A., Carter WHJr, Simmons, J. E., and Gennings, C. (2005).

  Neurotoxicological and Statistical Analyses of a Mixture of Five Organophosphorus Pesticides

  Using a Ray Design. *Toxicological Sciences [Toxicol. Sci.]. Vol. 86, no. 1, pp. 101-115. Jul 2005.*Rejection Code: MODELING.
- 946. MOSS MO (1991). INFLUENCE OF AGRICULTURAL BIOCIDES ON MYCOTOXIN FORMATION IN CEREALS. CHELKOWSKI, J. (ED.). DEVELOPMENTS IN FOOD SCIENCE, VOL. 26. CEREAL GRAIN: MYCOTOXINS, FUNGI AND QUALITY IN DRYING AND STORAGE. XXII+607P. ELSEVIER SCIENCE PUBLISHERS B.V.: AMSTERDAM, NETHERLANDS; (DIST. IN THE USA AND CANADA BY ELSEVIER SCIENCE PUBLISHING CO., INC.: NEW YORK, NEW YORK, USA). ILLUS. MAPS. ISBN 0-444-88554-4.; 0 (0). 1991. 281-295. Rejection Code: HUMAN HEALTH.
- 947. MOUSTACCHI, E., CARERE, A., MORPURGO, G., RAMEL, C., and WURGLER FE (1986). ASSAYS FOR GENETIC CHANGES IN FUNGI. MONTESANO, R., ET AL. (ED.). IARC (INTERNATIONAL AGENCY FOR RESEARCH ON CANCER) SCIENTIFIC PUBLICATIONS, NO. 83. LONG-TERM AND SHORT-TERM ASSAYS FOR CARCINOGENS: A CRITICAL APPRAISAL. III+564P. OXFORD UNIVERSITY PRESS: NEW YORK, NEW YORK, USA; IARC: LYON, FRANCE. ILLUS. PAPER. ISBN 92-832-1183-9.; 0 (0). 1986 (1987). 303-350. Rejection Code: METHODS.
- 948. Moyer, L. and Cross, J. (1990). Pesticide monitoring: Illinois EPA's summary of results, 1985-1989. Rejection Code: SURVEY.
- 949. Mui, B., Ahkong, Q. F., Chow, L., and Hope, M. J. (2000). Membrane perturbation and the mechanism of lipid-mediated transfer of DNA into cells. *Biochimica et Biophysica Acta (BBA) Biomembranes* 1467: 281-292.

  Rejection Code: METHODS.
- 950. Muir, D. C. G., Teixeira, C., and Wania, F. (2004). Empirical and modeling evidence of regional

atmospheric transport of current-use pesticides. *Environmental Toxicology and Chemistry [Environ. Toxicol. Chem.]. Vol. 23, no. 10, pp. 2421-2432. Oct 2004.* Rejection Code: FATE.

951. Muirhead-Thomson, R. C. and Merryweather, J. (1970). Ovicides in Simulium Control. *Nature 221:858 (ABS) (1969) /Bull.W.H.O.* 42: 174-177.

; Habitat: T; Effect Codes: GRO

- 952. MUKERJEE, S., ELLENSON WD, LEWIS RG, STEVENS RK, SOMERVILLE MC, SHADWICK DS, and WILLIS RD (1997). An environmental scoping study in the Lower Rio Grande Valley of Texas: III. Residential microenvironmental monitoring for air, house dust, and soil. *ENVIRONMENT INTERNATIONAL*; 23 657-673.

  <u>Rejection Code</u>: SURVEY.
- 953. Mukherjee, Soumi and Chattopadhyay, Amitabha (2005). Monitoring cholesterol organization in membranes at low concentrations utilizing the wavelength-selective fluorescence approach. *Chemistry and Physics of Lipids* 134: 79-84.

  Rejection Code: METHODS.
- 954. Mukherjee, Soumi, Raghuraman, H., Dasgupta, Sudeshna, and Chattopadhyay, Amitabha (2004).

  Organization and dynamics of N-(7-nitrobenz-2-oxa-1,3-diazol-4-yl)-labeled lipids: a fluorescence approach. *Chemistry and Physics of Lipids* 127: 91-101.

  Rejection Code: METHODS.
- 955. MULCHANDANI, A., KANEVA, I., and CHEN, W. (1999). Detoxification of organophosphate nerve agents by immobilized Escherichia coli with surface-expressed organophosphorus hydrolase. BIOTECHNOLOGY AND BIOENGINEERING; 63 216-223.
  Rejection Code: BACTERIA.
- 956. Mulchandani, Priti, Mulchandani, Ashok, Kaneva, Irina, and Chen, Wilfred (1999). Biosensor for direct determination of organophosphate nerve agents. 1. Potentiometric enzyme electrode. *Biosensors and Bioelectronics* 14: 77-85.

  Rejection Code: METHODS.
- 957. Mulla, M. S. (1963). Persistence of Mosquito Larvicides in Water. Mosq.News 23: 234-237.

; Habitat: A; Effect Codes: MOR

958. Mulla, M. S., Isaak, L. W., and Axelrod, H. (1963). Field Studies on the Effects of Insecticides on Some Aquatic Wildlife Species. *J.Econ.Entomol.* 56: 184-188.

; <u>Habitat</u>: A; <u>Effect Codes</u>: MOR

959. Mulla, M. S., Metcalf, R. L., and Isaak, L. W. (1962). Some New and Highly Effective Mosquito Larvicides. *Mosq.News* 22: 231-238.

; Habitat: A; Effect Codes: POP

- 960. Munn, M. D. and Gilliom, R. J. (2001). Pesticide Toxicity Index for Freshwater Aquatic Organisms. Water-Resour.Investig.Rep.No.01-4077, U.S.Geol.Surv., Sacramento, CA 1-55. Rejection Code: REFS CHECKED/REVIEW.
- 961. Munn, M. D. and Gilliom, R. J. (2001). Pesticide Toxicity Index for Freshwater Aquatic Organisms. *Water-Resour.Investig.Rep.No.01-4077, U.S.Geol.Surv., Sacramento, CA* 1-55.

- Rejection Code: REFS CHECKED/REVIEW.
- 962. Munn, M. D. and Gilliom, R. J. (2001). Pesticide Toxicity Index for Freshwater Aquatic Organisms. Water-Resour.Investig.Rep.No.01-4077, U.S.Geol.Surv., Sacramento, CA 1-55. Rejection Code: REFS CHECKED/REVIEW.
- 963. Murray, A., Rathbone, A. J., and Ray, D. E. (2005). Novel protein targets for organophosphorus pesticides in rat brain. *Environmental Toxicology and Pharmacology [Environ. Toxicol. Pharmacol.]. Vol.* 19, no. 3, pp. 451-454. May 2005. Rejection Code: IN VITRO.
- 964. Murray, H. E. and Guthrie, R. K. (1980). Effects of Carbaryl, Diazinon and Malathion on Native Aquatic Populations of Microorganisms. *Bull.Environ.Contam.Toxicol.* 24: 535-542.
  - ; Habitat: A; Effect Codes: PHY,POP
- 965. MURRAY, V. SG, WISEMAN HM, DAWLING, S., MORGAN, I., and HOUSE IM (1992). HEALTH EFFECTS OF ORGANOPHOSPHATE SHEEP DIPS. *BR MED J; 305* 1090. Rejection Code: HUMAN HEALTH.
- 966. Mustapha, J. and Hill, S. B. (1974). Short-Term Effects of Diazinon on Soil Arthropods. *Rev. Ecol. Biol. Sol* 11: 197-200.
  - ; Habitat: T; Effect Codes: POP
- 967. Mutch, Elaine and Williams, Faith M. (2003). 565 Do multiple P450 isoforms contribute to diazinon metabolism in man? *Toxicology Letters* 144: s151.

  Rejection Code: HUMAN HEALTH.
- 968. Muzart, Jacques (2003). Palladium-catalysed oxidation of primary and secondary alcohols. *Tetrahedron* 59: 5789-5816.

  Rejection Code: METHODS.
- 969. Nakagawa, Y., Nakajima, K., Tayama, S., and Moldeus, P. (1995). Metabolism and cytotoxicity of propyl gallate in isolated rat hepatocytes: Effects of a thiol reductant and an esterase inhibitor. *Molecular Pharmacology. Vol. 47, no. 5, pp. 1021-1027. 1995.*Rejection Code: IN VITRO.
- 970. Nakagawa, Yoshio and Moldeus, Peter (1998). Mechanism of p-Hydroxybenzoate Ester-induced Mitochondrial Dysfunction and Cytotoxicity in Isolated Rat Hepatocytes. *Biochemical Pharmacology* 55: 1907-1914.

  Rejection Code: IN VITRO.
- 971. Nakagawa, Yoshio and Moore, Gregory (1999). Role of mitochondrial membrane permeability transition in p-hydroxybenzoate ester-induced cytotoxicity in rat hepatocytes. *Biochemical Pharmacology* 58: 811-816.

  Rejection Code: IN VITRO.
- 972. Nakamura, Mitsunobu, Ouchi, Akihiko, Miki, Masamichi, and Majima, Tetsuro (2001). Photochemical P--O bond fission of aryl diethyl phosphates by a resonant two-photon reaction. *Tetrahedron Letters*42: 7447-7449.
  Rejection Code: METHODS.
- 973. Nakatsugawa, T., Tolman, N. M., and Dahm, P. A. (1969). Oxidative degradation of diazinon by rat liver microsomes. *Biochemical Pharmacology* 18: 685-688.

- Rejection Code: METABOLISM.
- 974. NANDAN, R. and RAISUDDIN, S. (1992). FUNGAL DEGRADATION OF INDUSTRIAL WASTES AND WASTEWATER. ARORA, D. K., R. P. ELANDER AND K. G. MUKERJI (ED.). HANDBOOK OF APPLIED MYCOLOGY, VOL. 4. FUNGAL BIOTECHNOLOGY. XVII+1114P. MARCEL DEKKER, INC.: NEW YORK, NEW YORK, USA; BASEL, SWITZERLAND. ILLUS. ISBN 0-8247-8501-0.; 0 (0). 1992. 931-961. Rejection Code: METABOLISM.
- 975. Natarajan, Arvind and Srienc, Friedrich (1999). Dynamics of Glucose Uptake by Single Escherichia coli Cells. *Metabolic Engineering* 1: 320-333.

  Rejection Code: BACTERIA.
- 976. NAVARRO GARCIA S, CAMARA MA, BARBA, A., TOLEDANO, R., and LUNA, A. (1992). Incidence of residual levels of organophosphorus insecticides in farm produce in the region of Murcia, Spain: Comparison of intake in the 1985-86 and 1989 campaigns. *J APPL TOXICOL*; 12 251-254.

  Rejection Code: HUMAN HEALTH.
- 977. Nayak, D. N. and Rao, V. R. (1982). Pesticides and Nitrogen Fixation in a Paddy Soil. *Soil Biol.Biochem.* 14: 207-210.

  Rejection Code: BACTERIA.
- 978. Nayak, D. N. and Rao, V. Rajaramamohan (1982). Pesticides and nitrogen fixation in a paddy soil. *Soil Biology and Biochemistry* 14: 207-210.

  Rejection Code: BACTERIA.
- 979. Nayar, Rajiv, Tilcock, Colin P. S., Hope, Michael J., Cullis, Pieter R., and Schroit, Alan J. (1988). N-Succinyldioleoylphosphatidylethanolamine: structural preferences in pure and mixed model membranes. *Biochimica et Biophysica Acta (BBA) Biomembranes* 937: 31-41. Rejection Code: METHODS.
- 980. NCTCOG (1993). Storm Water Discharge Characterization Final Summary Report Task 2.0. *N.Central Texas Counc.of Gov., Dresser and McKee Inc.and Alan Plummer and Assoc.Inc.*Rejection Code: EFFLUENT.
- 981. Ndikum-Moffor, F. M., Schoeb, T. R., and Roberts, S. M. \*. (1998). Liver toxicity from norcocaine nitroxide, an N-oxidative metabolite of cocaine. *Journal of Pharmacology and Experimental Therapeutics [J. PHARMACOL. EXP. THER.]. Vol. 284, no. 1, pp. 413-419. Jan 1998.*Rejection Code: METABOLISM.
- 982. NEIDERT, E. and SASCHENBRECKER PW (1996). Occurrence of pesticide residues in selected agricultural food commodities available in Canada. *JOURNAL OF AOAC INTERNATIONAL*; 79 549-566.

  Rejection Code: HUMAN HEALTH.
- 983. Nemeth-Konda, L., Fuleky, Gy., Morovjan, Gy., and Csokan, P. (2002). Sorption behaviour of acetochlor, atrazine, carbendazim, diazinon, imidacloprid and isoproturon on Hungarian agricultural soil. *Chemosphere* 48: 545-552.

  Rejection Code: FATE.
- 984. Nemeth-Konda, L., Fuleky, Gy., Morovjan, Gy., and Csokan, P. (2002). Sorption behaviour of acetochlor, atrazine, carbendazim, diazinon, imidacloprid and isoproturon on Hungarian agricultural soil. *Chemosphere* 48: 545-552.

  Rejection Code: METHODS.

- 985. Nichol, Alan W. and Angel, Lyndall A. (1984). A comparative study of porphyrin accumulation in tissue cultures of chicken embryo hepatocytes treated with organophosphorous pesticides. *Biochemical Pharmacology* 33: 2511-2515.

  <u>Rejection Code</u>: IN VITRO.
- 986. NIEMCZYK HD and KRAUSE, A. (1989). DEGRADATION AND MOBILITY OF PESTICIDES APPLIED TO TURFGRASSES INSECTICIDES AND PREEMERGENT HERBICIDES. 198TH ACS (AMERICAN CHEMICAL SOCIETY) NATIONAL MEETING, MIAMI BEACH, FLORIDA, USA, SEPTEMBER 10-15, 1989. ABSTR PAP AM CHEM SOC; 198 (0). 1989. AGRO 130. Rejection Code: FATE.
- 987. Nishiuchi, Y. (1977). Toxicity of Formulated Pesticides to Some Fresh Water Organisms. XXXXI. *The Aquiculture (Suisan Zoshoku)* 24: 146-150 (JPN).
  - ; Habitat: A; Effect Codes: MOR
- 988. Nishiuchi, Y. (1985). Toxicity of Pesticides to Some Aquatic Animals. VII. Acute Toxicity to Daphnia magna. *Aquat.Ecol.Chem.(Seitai Kagaku)/ C.A.Sel.-Environ.Pollut.10:104-163325Q (1986)* 8: 15-20 (JPN).

  Rejection Code: NON-ENGLISH.
- 989. Nishiuchi, Y. (1985). Toxicity of Pesticides to Some Aquatic Animals. VII. Acute Toxicity to Daphnia magna. *Aquat.Ecol.Chem.(Seitai Kagaku)/ C.A.Sel.-Environ.Pollut.10:104-163325Q (1986)* 8: 15-20 (JPN) (ENG ABS).

  Rejection Code: NON-ENGLISH.
- 990. Nishiuchi, Y. (1972). Toxicity of Pesticides to Some Water Organisms. *Bull.Agric.Chem.Insp.Stn.(Noyaku Kensasho Hokoku)* 12: 122-128 (JPN) (ENG TRANSL).
  - ; Habitat: A; Effect Codes: MOR
- 991. Nishiuchi, Y. (1972). Toxicity of Pesticides to Some Water Organisms. *Bull.Agric.Chem.Insp.Stn.(Noyaku Kensasho Hokoku)* 12: 122-128 (JPN) (ENG TRANSL).
- 992. Nishiuchi, Y. and Asano, K. (1981). Comparison of Pesticide Susceptibility of Colored Carp with Japanese Common Carp. *Bull.Agric.Chem.Insp.Stn.(Noyaku Kensasho Hokoku)* 21: 61-63 (JPN) (ENG ABS).
  - ; Habitat: A; Effect Codes: MOR
- 993. Nishiuchi, Y. and Asano, K. (1979). Toxicity of Agricultural Chemicals to Some Freshwater Organisms 59. *The Aquiculture (Suisan Zoshoku)* 27: 48-55 (JPN) (ENG TRANSL).
- 994. Nishiuchi, Y. and Asano, K. (1978). Toxicity of Formulated Agrochemicals to Fresh Water Organisms. LII. *The Aquiculture /Suisan Zoshoku 26(1):26-30 (JPN)*.
  - ; Habitat: A; Effect Codes: MOR
- 995. Nishiuchi, Y. and Hashimoto, Y. (1967). Toxicity of Pesticide Ingredients to Some Fresh Water Organisms. *Sci.Pest Control (Botyu-Kagaku)* 32: 5-11 (JPN) (ENG ABS) (Author Communication Used).
  - ; Habitat: A; Effect Codes: MOR

- 996. Nishiuchi, Y. and Yoshida, K. (1972). Toxicities of Pesticides to Some Fresh Water Snails.

  \*\*Bull.Agric.Chem.Insp.Stn. 12: 86-92 (JPN) (ENG ABS) (ENG TRANSL) (Author Communication Used).
  - ; Habitat: A; Effect Codes: PHY,GRO
- 997. Nishiyama, Kozaburo, Oba, Makoto, and Watanabe, Akio (1987). Reactions of trimethylsilyl azide with aldehydes: facile and convenient syntheses of diazides, tetrazoles, and nitriles. *Tetrahedron* 43: 693-700.

  Rejection Code: METHODS.
- 998. Nishizawa, T. (1999). Major Plant-Parasitic Nematodes and Their Control in Japany. *Agrochem.Jpn.* 74: 2-9.Rejection Code: REVIEW.
- 999. NOBLET JA, SMITH LA, and SUFFET IM (1996). Influence of natural dissolved organic matter, temperature, and mixing on the abiotic hydrolysis of triazine and organophosphate pesticides. *JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY; 44* 3685-3693.

  Rejection Code: FATE.
- 1000. Noddegard, E., Hansen, T., and Rasmussen, A. N. (1970). Testing of Fungicides and Insecticides in 1969. *Tidsskr.Planteavl* 74: 618-661. Rejection Code: NON-ENGLISH.
- 1001. Noguchi, Ari, Furuno, Tadahide, Kawaura, Chiyo, and Nakanishi, Mamoru (1998). Membrane fusion plays an important role in gene transfection mediated by cationic liposomes. FEBS Letters 433: 169-173.
  Rejection Code: METHODS.
- 1002. NOHARA, S., HANAZATO, T., and IWAKUMA, T. (1997). Pesticide residue flux from rainwater into Lake Nakanuma in the rainy season. *JAPANESE JOURNAL OF LIMNOLOGY*; 58 385-393. Rejection Code: FATE.
- 1003. Nohara, Seiichi and Iwakuma, Toshio (1996). Pesticide residues in water and an aquatic plant, Nelumbo nucifera, in a river mouth at Lake Kasumigaura, Japan. *Chemosphere* 33: 1409-1416. <u>Rejection Code</u>: SURVEY, MIXTURE.
- 1004. Nohara, Seiichi and Iwakuma, Toshio (1996). Residual pesticides and their toxicity to freshwater shrimp in the littoral and pelagic zones of Lake Kasumigaura, Japan. *Chemosphere* 33: 1417-1424.

  <u>Rejection Code</u>: MIXTURE.
- 1005. Nomeir, Amin A., Hajjar, Nicolas P., Hodgson, Ernest, and Dauterman, Walter C. (1980). In vitro metabolism of EPN and EPNO in susceptible and resistant strains of house flies. *Pesticide Biochemistry and Physiology* 13: 112-120.
  Rejection Code: METABOLISM.
- 1006. Norberg-King, T., Lukasewcyz, M., and Jenson, J. (1989). Results of Diazinon Levels in POTW Effluents in the United States. *Tech.Rep.14-89*, *National Effluent Toxicity Assessment Center, Sept.1989*, *U.S.EPA*, *Duluth*, *MN* 19 p. Rejection Code: EFFLUENT.
- 1007. Norgaard, Marida J. and Montgomery, M. W. (1968). Some esterases of the PEA (Pisum sativum L.). Biochimica et Biophysica Acta (BBA) - Enzymology 151: 587-596. Rejection Code: NO TOX DATA.

- 1008. Norland, R. L., Mulla, M. S., Pelsue, F. W., and Ikeshoji, T. (1974). Conventional and New Insecticides for the Control of Chironomid Midges. *Proc.Ann.Conf.Calif.Mosq.Control Assoc.* 42: 181-183.
  - ; Habitat: A; Effect Codes: MOR
- 1009. Norman, Brenda J., Vaughn, William K., and Neal, Robert A. (1973). Studies of the mechanisms of metabolism of diethyl p-nitrophenyl phosphorothionate (parathion) by rabbit liver microsomes. Biochemical Pharmacology 22: 1091-1101.
  Rejection Code: METABOLISM.
- 1010. O'Brien, R. D. (1963). Organophosphates and Carbamates. In: R.M.Hochster and J.H.Quastel (Eds.), Metabolic Inhibitors: A Comprehensive Treatise, Volume II, Acad.Press Inc., New York, NY 205-241.
  Rejection Code: REVIEW.
- 1011. O'Brien, R. D., Hetnarski, B., Tripathi, R. K., and Hart, G. J. (1974). Recent Studies on Acetylcholinesterase Inhibition. *In: G.K.Kohn (Ed.), ACS Symp.Ser.No.2, Mechanism of Pesticide Action, Am.Chem.Soc., Washington, D.C.* 1-13.

  Rejection Code: REVIEW.
- 1012. O'Kelley, J. C. and Deason, T. R. (1976). Degradation of Pesticides by Algae. *EPA-600/3-76-022*, *U.S.EPA*, *Athens*, *GA* 41 p.(U.S.NTIS PB-251933) (Publ As 7429 and 7442). Rejection Code: FATE.
- 1013. Oehlke, Johannes, Beyermann, Michael, Wiesner, Burkhard, Melzig, Mathias, Berger, Hartmut, Krause, Eberhard, and Bienert, Michael (1997). Evidence for extensive and non-specific translocation of oligopeptides across plasma membranes of mammalian cells. *Biochimica et Biophysica Acta* (*BBA*) *Biomembranes* 1330: 50-60.

  Rejection Code: METHODS.
- 1014. Ogutcu, Ayse, Uzunhisarcikli, Meltem, Kalender, Suna, Durak, Dilek, Bayrakdar, Fatma, and Kalender, Yusuf (The effects of organophosphate insecticide diazinon on malondialdehyde levels and myocardial cells in rat heart tissue and protective role of vitamin E. *Pesticide Biochemistry and Physiology* In Press, Corrected Proof.

  Rejection Code: NO SOURCE.
- 1015. Oh, Ki-Bong and Matsuoka, Hideaki (2002). Rapid viability assessment of yeast cells using vital staining with 2-NBDG, a fluorescent derivative of glucose. *International Journal of Food Microbiology* 76: 47-53.
  Rejection Code: YEAST.
- 1016. Ohashi, N., Tsuchiya, Y., Sasano, H., and Hamada, A. (1994). Ozonation products of organophosphorous pesticides in water. *Japanese Journal of Toxicology and Environmental Health [JAP. J. TOXICOL. ENVIRON. HEALTH]. Vol. 40, no. 2, pp. 185-192. 1994*.

  Rejection Code: FATE.
- 1017. Ohayo-Mitoko, G. J. A. and Deneer, J. W. (1993). Lethal Body Burdens of Four Organophorus Pesticides in the Guppy (Poecilia reticulata). *Sci.Total Environ.(Suppl.)* 559-565.
  - ; Habitat: A; Effect Codes: ACC
- 1018. Okpodu, Camellia Moses (1999). Characterization of a nuclear phosphatidylinositol 4-kinase in carrot suspension culture cells. *Plant Physiology and Biochemistry* 37: 473-480. Rejection Code: IN VITRO.

- 1019. OKUMURA, D., MELNICOE, R., JACKSON, T., DREFS, C., MADDY, K., and WELLS, J. (1991).

  PESTICIDE RESIDUES IN FOOD CROPS ANALYZED BY THE CALIFORNIA USA

  DEPARTMENT OF FOOD AND AGRICULTURE IN 1989. WARE, G. W. (ED.). REVIEWS OF

  ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY, VOL. 118. IX+158P. SPRINGER
  VERLAG NEW YORK INC.: NEW YORK, NEW YORK, USA; BERLIN, GERMANY. ILLUS. ISBN 0-387-97447-4; ISBN 3-540-97447-4.; 0 (0). 1991. 87-152.

  Rejection Code: HUMAN HEALTH.
- 1020. Olson, D. L. and Christensen, G. M. (1980). Effects of Water Pollutants on Other Chemicals on Fish Acetylcholinesterase (in vitro). *Environ.Res.* 21: 327-335.
  Rejection Code: IN VITRO.
- 1021. Omann G. M., Harter J. M., Burger J. M., and Hinshaw D. B. (1994). H2O2-Induced Increases in Cellular F-Actin Occur without Increases in Actin Nucleation Activity. *Archives of Biochemistry and Biophysics* 308: 407-412. Rejection Code: METHODS.
- 1022. Oomen, P. A., Jobsen, J. A., Romeijn, G., and Wiegers, G. L. (1994). Side-Effects of 107 Pesticides on the Whitefly Parasitoid Encarsia formosa, Studies and Evaluated According to EPPO Guideline No. 142. Bull.OEPP 24: 89-107. Rejection Code: NO DURATION.
- 1023. Oomen, P. A., Jobsen, J. A., Romeijn, G., and Wiegers, G. L. (1994). Side-Effects of 107 Pesticides on the Whitefly Parasitoid Encarsia formosa, Studies and Evaluated According to EPPO Guideline No. 142. Bull.OEPP 24: 89-107. Rejection Code: NO DURATION.
- 1024. Oomen, P. A., Jobsen, J. A., Romeijn, G., and Wiegers, G. L. (1994). Side-Effects of 107 Pesticides on the Whitefly Parasitoid Encarsia formosa, Studies and Evaluated According to EPPO Guideline No. 142. Bull.OEPP 24: 89-107. Rejection Code: NO DURATION.
- 1025. Orisakwe, O. E. and Obi, N. (1993). In vitro and in vivo adsorption studies of diazinon. *Human & Experimental Toxicology [HUM. EXP. TOXICOL.]. Vol. 12, no. 4, pp. 301-303. 1993.*Rejection Code: FATE.
- 1026. OSBORNE BG , BARRETT GM, LAAL-KHOSHAB, A., and WILLIS KH (1989). THE OCCURRENCE OF PESTICIDE RESIDUES IN UK HOME-GROWN AND IMPORTED WHEAT. *PESTIC SCI*; 27 103-109.

  Rejection Code: FATE.
- 1027. Ostlie, K. R. (1992). Insecticide Performance Against First-Generation European Corn Borer-Liquids vs Granules, 1991. *In: A.K.Burditt,Jr.(Ed.), Insecticide and Acaricide Tests, Volume 17, Entomol.Soc.of Am., Lanham, MD* 215-216.
  - ; Habitat: T; Effect Codes: POP
- 1028. Osuna, I., Lopez, D., Galindo, J. G., and Riva, M. C. (1997). Toxicological Evaluation of Methyl Parathion, Methyl Azinfos, Chlorpyrifos, Diazinon, and Methamidophos to the Shrimps From Genus Penaeus Sp (Evaluacion Toxicologica De Metil Paration, Metil Azinfos, Clorpirifos, Diazinon, Y Metamidofos, En Camarones Del Genero Penaeus Sp). Bol.INTEXTER Inst.Invest.Text.Coop.Ind. 111: 65-71.
  Rejection Code: NON-ENGLISH.
- 1029. Osuna, I., Lopez, D., Galindo, J. G., and Riva, M. C. (1997). Toxicological Evaluation of Methyl Parathion,

Methyl Azinfos, Chlorpyrifos, Diazinon, and Methamidophos to the Shrimps From Genus Penaeus Sp (Evaluacion Toxicologica De Metil Paration, Metil Azinfos, Clorpirifos, Diazinon, Y Metamidofos, En Camarones Del Genero Penaeus Sp). *Bol.INTEXTER Inst.Invest.Text.Coop.Ind.* 111: 65-71.

Rejection Code: NON-ENGLISH.

1030. OTT WR and ROBERTS JW (1998). EVERYDAY EXPOSURE TO TOXIC POLLUTANTS. SCIENTIFIC AMERICAN; 278 86-91. Rejection Code: NO TOX DATA.

- 1031. Ozawa, Shuji, Itoh, Akira, Oshima, Koichiro, and Nozaki, Hitosi (1979). Stereochemical studies on the nucleophilic substitution in the reaction of allyl phosphates with organoaluminium reagents. *Tetrahedron Letters* 20: 2909-2912.

  <u>Rejection Code</u>: METHODS.
- 1032. Padilla, S., Sung, H. J., and Moser, V. C. (2004). Further assessment of an in vitro screen that may help identify organophosphorus pesticides that are more acutely toxic to the young. *Journal of Toxicology and Environmental Health, Part A: Current Issues [J. Toxicol. Environ. Health, A: Curr. Iss.]. Vol. 67, no. 18, pp. 1477-1489. 24 Sep 2004.*Rejection Code: IN VITRO.
- 1033. Palmer, J. S. (1978). Toxicologic Evaluation of Microencapsulated Formulation of Dizinon Applied Dermally to Cattle. *Am.J.Vet.Res.* 39: 1231-1232.

; Habitat: T; Effect Codes: BCM,MOR

1034. Palmer-Jones, T. (1958). Laboratory Methods for Measuring the Toxicity of Pesticides to Honey Bees. *N.Z.J.Agric.Res.* 1: 290-300.

; Habitat: T; Effect Codes: MOR

1035. Palmgren, M. S. and Lee, T. C. (1984). Malathion and diazinon levels in grain dust from New Orleans area grain elevators. *American Industrial Hygiene Association Journal [AM. IND. HYG. ASSOC. J.]. Vol. 45, no. 3, pp. 168-171. 1984.*Rejection Code: HUMAN HEALTH.

1036. Pan, D. Y. and Liang, X. M. (1993). Safety Study of Pesticides on Bog Frog, a Predatory Natural Enemy of Pest in Paddy Field. *J.Hunan Agricult.Coll.* 19: 47-54 (CHI) (ENG ABS).

; Habitat: A; Effect Codes: MOR

- 1037. Pan, G. and Dutta, H. (2000). Diazinon Induced Changes in the Serum Proteins of Large Mouth Bass, Micropterus salmoides. *Bull.Environ.Contam.Toxicol.* 64: 287-293.
  <u>Rejection Code</u>: NO DURATION.
- 1038. PAPADOPOULOU-MOURKIDOU, E. and PATSIAS, J. (1996). Development of a semi-automated high-performance liquid chromatographic-diode array detection system for screening pesticides at trace levels in aquatic systems of the Axios River basin. *JOURNAL OF CHROMATOGRAPHY A*; 726 99-113.

  Rejection Code: METHODS.
- 1039. Paraoanu, L. E., Mocko, J. B., Becker-Roeck, M., Smidek-Huhn, J., and Layer, P. G. (2006). Exposure to Diazinon Alters In Vitro Retinogenesis: Retinospheroid Morphology, Development of Chicken Retinal Cell Types, and Gene Expression. *Toxicological Sciences [Toxicol. Sci.]. Vol. 89, no. 1, pp. 314-324. Jan 2006.*

- Rejection Code: IN VITRO.
- 1040. Paris, D. F., Lewis, D. L., Barnett, J. T. Jr., and Baughman, G. L. (1975). Microbial Degradation and Accumulation of Pesticides in Aquatic Systems. *EPA-660/3-75-007*, *U.S.EPA*, *Corvallis*, *OR* 46 p.
  - ; Habitat: A; Effect Codes: GRO
- 1041. Paris, D. F., Lewis, D. L., Barnett, J. T. Jr, and Baughman, G. L. (1975). Microbial degradation and accumulation of pesticides in aquatic systems.

  Rejection Code: FATE.
- 1042. Park, Hee-Sae, Kim, In Soo, and Park, Jeen-Woo (1999). Phosphorylation Induces Conformational Changes in the Leukocyte NADPH Oxidase Subunit p47phox. *Biochemical and Biophysical Research Communications* 259: 38-42.

  Rejection Code: METHODS.
- 1043. Park, Hee-Sae and Park, Jeen-Woo (1998). Fluorescent Labeling of the Leukocyte NADPH Oxidase Subunit p47phox: Evidence for Amphiphile-Induced Conformational Changes. *Archives of Biochemistry and Biophysics* 360: 165-172.

  Rejection Code: METHODS.
- 1044. PARVEEN, Z., AFRIDI, I. AK, MASUD SZ, and BAIG, M. MH (1996). Monitoring of multiple pesticide residues in cotton seeds during three crop seasons. *PAKISTAN JOURNAL OF SCIENTIFIC AND INDUSTRIAL RESEARCH; 39* 146-149.

  Rejection Code: SURVEY.
- 1045. Patterson, B. M., Franzmann, P. D., Rayner, J. L., and Davis, G. B. (2000). Combining coring and suction cup data to improve the monitoring of pesticides in sandy vadose zones: a field-release experiment. *Journal of Contaminant Hydrology [J. Contam. Hydrol.]. Vol. 46, no. 1-2, pp. 187-204. Nov 2000.*Rejection Code: METHODS/SURVEY.
- 1046. PEDERSEN-BJERGAARD, S. and GREIBROKK, T. (1996). Environmental applications of capillary gas chromatography coupled with atomic emission detection: A review. *HRC JOURNAL OF HIGH RESOLUTION CHROMATOGRAPHY*; 19 597-607.

  Rejection Code: METHODS, REVIEW.
- 1047. PEHKONEN SO and DANNENBERG, A. (1995). IRON OXIDE CATALYZED
  PHOTODEGRADATION OF SELECTED ORGANOPHOSPHORUS PESTICIDES
  IMPLICATIONS FOR AQUATIC FATE. 210TH AMERICAN CHEMICAL SOCIETY
  NATIONAL MEETING, CHICAGO, ILLINOIS, USA, AUGUST 20-24, 1995. ABSTRACTS OF
  PAPERS AMERICAN CHEMICAL SOCIETY; 210 ENVR 212.
  Rejection Code: FATE.
- 1048. PENNSYLVANIA ACADEMY OF SCIENCE USA (1999). 75th Annual Meeting of the Pennsylvania Academy of Science (Pocono Manor, Pennsylvania, USA; April 9-11, 1999). *JOURNAL OF THE PENNSYLVANIA ACADEMY OF SCIENCE*; 72 148-188.

  Rejection Code: ABSTRACT.
- 1049. Perahia, David, Pullman, Bernard, and Saran, Anil (1974). Molecular orbital calculations on the conformation of nucleic acids and their constituents: IX. The geometry of the phosphate group: Key to the conformation of polynucleotides? *Biochimica et Biophysica Acta (BBA) Nucleic Acids and Protein Synthesis* 340: 299-313.

  Rejection Code: METHODS.

- 1050. Pereira, W. E., Domagalski, J. L., Hostettler, F. D., Brown, L. R., and Rapp, J. B. (1996). Occurrence and Accumulation of Pesticides and Organic Contaminants in River Sediment, Water and Clam Tissues from the San Joaquin River and Tributaries, California. *Environ.Toxicol.Chem.* 15: 172-180.
  Rejection Code: NO DURATION/SURVEY.
- 1051. Periera, W. E. and Hostettler, F. D. (1993). Nonpoint Source Contamination of the Mississippi River and its Tributaries by Herbicides. *Environ.Sci.Technol.* 27: 1542-1552. Rejection Code: SURVEY.
- 1052. Periera, W. E. and Hostettler, F. D. (1993). Nonpoint Source Contamination of the Mississippi River and its Tributaries by Herbicides. *Environ.Sci.Technol.* 27: 1542-1552. Rejection Code: SURVEY.
- 1053. Perry, N. S. L., Houghton, P. J., Jenner, P., Keith, A., and Perry, E. K. (2002). Salvia lavandulaefolia essential oil inhibits cholinesterase in vivo. *Phytomedicine*, *9* (1) pp. 48-51, 2002. Rejection Code: MIXTURE, BIOLOGICAL TOXICANT.
- 1054. Perry, W. (2004). Elements of South Florida's Comprehensive Everglades Restoration Plan. *Ecotoxicology [Ecotoxicology]. Vol. 13, no. 3, pp. 185-193. Apr 2004.*Rejection Code: NO TOX DATA.
- 1055. Pery, A. R. R., Bedaux, J. J. M., Zonneveld, C., and Kooijman, S. A. L. M. (2001). Analysis of Bioassays with Time-Varying Concentrations. *Water Res.* 35: 3825-3832. Rejection Code: MODELING.
- 1056. Peskin, Alexander V. and Winterbourn, Christine C. (2006). Taurine chloramine is more selective than hypochlorous acid at targeting critical cysteines and inactivating creatine kinase and glyceraldehyde-3-phosphate dehydrogenase. *Free Radical Biology and Medicine* 40: 45-53. Rejection Code: METHODS.
- 1057. Peter Slotte, J. (1995). Lateral domain heterogeneity in cholesterol/phosphatidylcholine monolayers as a function of cholesterol concentration and phosphatidylcholine acyl chain length. *Biochimica et Biophysica Acta (BBA) Biomembranes* 1238: 118-126.

  Rejection Code: METHODS.
- 1058. Petruska, J. A., Mullins, D. E., Young, R. W., and Collins, Jr. E. R. (1985). A benchtop system for evaluation of pesticide disposal by composting. *Nuclear and Chemical Waste Management* 5: 177-182.

  <u>Rejection Code</u>: METHODS.
- 1059. Pewnim, Thanit and Seifert, Josef (1993). Structural requirements for altering the L-tryptophan metabolism in mice by organophosphorous and methylcarbamate insecticides. *European Journal of Pharmacology: Environmental Toxicology and Pharmacology* 248: 237-241.

  Rejection Code: METABOLISM.
- 1060. Phillips, B. M., Anderson, B. S., Hunt, J. W., Nicely, P. A., Kosaka, R. A., Tjeerdema, R. S., De Vlaming, V., and Richard, N. (2004). In Situ Water and Sediment Toxicity in an Agricultural Watershed. *Environ.Toxicol.Chem.* 23: 435-442. Rejection Code: MIXTURE.
- 1061. Phipps, G. L. (1988). Diazinon Acute Tests for Criteria Development. *April 29th Memo to R.Spehar, U.S.EPA, Duluth, MN* 2 p.
  - ; Habitat: A; Effect Codes: MOR

- 1062. Pickering, Q. H., Henderson, C., and Lemke, A. E. (1962). The Toxicity of Organic Phosphorus Insecticides to Different Species of Warmwater Fishes. *Trans.Am.Fish.Soc.* 91: 175-184.
  - ; Habitat: A; Effect Codes: MOR
- 1063. Pierdet, Andre, Nedelec, Lucien, Delaroff, Vladimir, and Allais, Andre (1980). Synthese totale de la (+/-) negamycine. *Tetrahedron* 36: 1763-1772.

  <u>Rejection Code</u>: METHODS.
- 1064. Pisani-Borg, E., Cuany, A., Brun, A., Amichot, M., Fournier, D., and Berge, J. B. (1996). Oxidative Degradation of Diazinon byDrosophila:Metabolic Changes Associated with Insecticide Resistance and Induction. *Pesticide Biochemistry and Physiology* 54: 56-64.

  Rejection Code: FATE.
- 1065. PLANAS, C., CAIXACH, J., SANTOS FJ, and RIVERA, J. (1997). Occurrence of pesticides in Spanish surface waters. Analysis by high resolution gas chromatography coupled to mass spectrometry. *CHEMOSPHERE*; 34 2393-2406.

  Rejection Code: SURVEY.
- 1066. PLANT JW, HORTON BJ, ARMSTRONG, R. TF, and CAMPBELL NJ (1999). Modelling pesticide residues on greasy wool: Using organophosphate and synthetic pyrethroid survey data. *AUSTRALIAN JOURNAL OF EXPERIMENTAL AGRICULTURE*; 39 9-19. Rejection Code: SURVEY.
- 1067. Poet, T. S., Kousba, A. A., Dennison, S. L., and Timchalk, C. (2004). Physiologically Based Pharmacokinetic/Pharmacodynamic Model for the Organophosphorus Pesticide Diazinon. *NeuroToxicology* 25: 1013-1030.

  Rejection Code: MODELING.
- 1068. Poet, T. S., Wu, H., Kousba, A. A., and Timchalk, C. (2003). In Vitro Rat Hepatic and Intestinal Metabolism of the Organophosphate Pesticides Chlorpyrifos and Diazinon. *Toxicological Sciences [Toxicol. Sci.]. Vol. 72, no. 2, pp. 193-200. 2003.*Rejection Code: IN VITRO.
- 1069. POLETIKA NN, HAVENS PL, ROBB CK, and SMITH RD (1998). ORGANOPHOSPHOROUS INSECTICIDE CONCENTRATION PATTERNS IN AN AGRICULTURALLY DOMINATED TRIBUTARY OF THE SAN JOAQUIN RIVER. 215TH AMERICAN CHEMICAL SOCIETY NATIONAL MEETING, DALLAS, TEXAS, USA, MARCH 29-APRIL 2, 1998. ABSTRACTS OF PAPERS AMERICAN CHEMICAL SOCIETY; 215 AGRO 41.

  Rejection Code: ABSTRACT.
- 1070. Posokhov, Yevgen O. and Ladokhin, Alexey S. (2006). Lifetime fluorescence method for determining membrane topology of proteins. *Analytical Biochemistry* 348: 87-93. <u>Rejection Code</u>: METHODS.
- 1071. Posse, E., De Arcuri, B. F., and Morero, R. D. (1994). Lysozyme interactions with phospholipid vesicles: relationships with fusion and release of aqueous content. *Biochimica et Biophysica Acta (BBA) Biomembranes* 1193: 101-106.

  <u>Rejection Code</u>: METHODS.
- 1072. Posse, Elena, Lopez Vinals, Alberto, de Arcuri, Beatriz F., Farias, Ricardo N., and Morero, Roberto D. (1990). Lysozyme induced fusion of negatively charged phospholipid vesicles. *Biochimica et Biophysica Acta (BBA) Biomembranes* 1024: 390-394. Rejection Code: METHODS.

- 1073. Potter, D. A. (1993). Pesticide and Fertilizer Effects on Beneficial Invertebrates and Consequences for Thatch Degradation and Pest Outbreaks in Turfgrass. *In: K.D.Racke and A.R.Leslie (Eds.), ACS Symp.Ser.No.522, Pesticides in Urban Environments: Fate and Significance, 203rd Natl.Meet.of the Am.Chem.Soc., Apr.5-10, 1992, San Francisco, CA 331-343.*<u>Rejection Code</u>: FATE/REVIEW.
- 1074. Prabakaran, S., Tepp, W., and DasGupta, B. R. \*. (2001). Botulinum neurotoxin types B and E: purification, limited proteolysis by endoproteinase Glu-C and pepsin, and comparison of their identified cleaved sites relative to the three-dimensional structure of type A neurotoxin. *Toxicon [Toxicon]. Vol. 39, no. 10, pp. 1515-1531. Oct 2001.*Rejection Code: METHODS.
- 1075. Prakash, A. and Bhattacharya, R. (1993). Investigations on Downward Translocation of BPMC in Rice. *J.Insect Sci.*(*Lunhiana*) 6: 146-147.
  - ; Habitat: AT; Effect Codes: MOR,PHY
- 1076. Praly, J. P., El Kharraf, Z., and Descotes, G. (1990). Synthesis of C-1 spirocyclopropyl sugars from anomeric diazides. *Tetrahedron Letters* 31: 4441-4442.

  <u>Rejection Code</u>: METHODS.
- 1077. Praly, Jean-Pierre, Di Stefano, Carmela, Descotes, Gerard, and Faure, Rene (1994). Photolysis of sugar anomeric diazides: Sugar-derived tetrazoles as evidences for a major nitrene decomposition pathway. *Tetrahedron Letters* 35: 89-92.
  Rejection Code: METHODS.
- 1078. PRASAD BP, KANTAM ML, CHOUDARY BM, SUKUMAR, K., and SATYANARAYANA, K. (1990). New pesticide metal complexes for controlled release. *PESTIC SCI*; 28 157-166. Rejection Code: METHODS.
- 1079. Prasad, Tekkatte Krishnamurthy, Rangaraj, Nandini, and Rao, Nalam Madhusudhana (2005). Quantitative aspects of endocytic activity in lipid-mediated transfections. *FEBS Letters* 579: 2635-2642. Rejection Code: METHODS.
- 1080. Prieto, A., Molero, D., Gonz&Aacute, Lez, G., Buscema, I., Ettiene, G., and Medina, D. (Persistence of Methamidophos, Diazinon, and Malathion in Tomatoes. *Bull environ contam toxicol. 2002, oct;* 69(4):479-85. [Bulletin of environmental contamination and toxicology.]: Bull Environ Contam Toxicol.

  Rejection Code: FATE.
- 1081. Prieto, A., Molero, D., Gonzalez, G., Buscema, I., Ettiene, G., and Medina, D. (2002). Persistence of Methamidophos, Diazinon, and Malathion in Tomatoes. *Bulletin of Environmental Contamination and Toxicology [Bull. Environ. Contam. Toxicol.]. Vol. 69, no. 4, pp. 479-485. 2002.*Rejection Code: FATE.
- 1082. Prieto, A., Molero, D., Gonzalez, G., Buscema, I., Ettiene, G., and Medina, D. (2002). Persistence of Methamidophos, Diazinon, and Malathion in Tomatoes. *Bulletin of Environmental Contamination and Toxicology [Bull. Environ. Contam. Toxicol.]. Vol. 69, no. 4, pp. 479-485. 2002.*Rejection Code: FATE.
- 1083. Prieto, M. J. E., Castanho, M., Coutinho, A., Ortiz, A., Aranda, F. J., and Gomez-Fernandez, J. C. (1994). Fluorescence study of a derivatized diacylglycerol incorporated in model membranes. *Chemistry and Physics of Lipids* 69: 75-85. Rejection Code: METHODS.

- 1084. PRITCHARD PH (1988). FATE OF POLLUTANTS. *J WATER POLLUT CONTROL FED*; 60 983-994. Rejection Code: FATE.
- 1085. Proctor, N. H., Moscioni, A. D., and Casida, J. E. (1976). Chicken Embryo Nad Levels Lowered by Teratogenic Organophosphorus and Methylcarbamate Insecticidesag. *Biochem.Pharmacol.* 25: 757-762.
  - ; Habitat: T; Effect Codes: GRO
- 1086. Provini, A., Maio, E. d. i., Galassi, S., Lahaniatis, E. S., Parlar, H., Lay, J. P., Pfister, G., Bergheim, W., and Kotzias, D. (eds) (1991). Pesticide contamination in some tributaries of the Tyrrhenian Sea. Rejection Code: SURVEY.
- 1087. Prysak, M. F. and Joesten, M. D. (1970). Metal complexes of ethyl dimethylamidopyrophosphates. *Inorganica Chimica Acta* 4: 383-389.

  <u>Rejection Code</u>: METHODS.
- 1088. Puyal, Christophe, Maurin, Luc, Miquel, Genevieve, Bienvenue, Alain, and Philippot, Jean (1994). Design of a short membrane-destabilizing peptide covalently bound to liposomes. *Biochimica et Biophysica Acta (BBA) Biomembranes* 1195: 259-266.

  Rejection Code: METHODS.
- 1089. Qadri, N. and Dutta, H. M. (1995). Long Term Effects of Low and High Concentrations of Diazinon on Bluegill Fish, Lepomis macrochirus: A Light Microscopic Study. *Am.Soc.Zool.* 144A.
  - ; Habitat: A; Effect Codes: CEL
- 1090. QADRI NB and DUTTA HM (1997). EFFECTS OF DIAZINON ON THE GILL AND MACROPHAGE OF THE BLUEGILL SUNFISH LEPOMIS MACROCHIRUS A TEM STUDY. FIFTH INTERNATIONAL CONGRESS OF VERTEBRATE MORPHOLOGY, BRISTOL, ENGLAND, UK, JULY 12-17, 1997. JOURNAL OF MORPHOLOGY; 232 311.

  Rejection Code: ABSTRACT.
- 1091. Qadri, S. S. H., Sultana, H., and Anjum, F. (1982). Selective Toxicity of Organophophorous and Carbamate Pesticides to Honey Bee and Freshwater Fish. *Int.Pest Control* 24: 124-74.
  - ; Habitat: AT; Effect Codes: MOR, BCM
- 1092. Qiao, D. a. n., Seidler, F. J., and Slotkin, T. A. \*. (2001). Developmental Neurotoxicity of Chlorpyrifos Modeled in Vitro: Comparative Effects of Metabolites and Other Cholinesterase Inhibitors on DNA Synthesis in PC12 and C6 Cells. *Environmental Health Perspectives [Environ. Health Perspect.]. Vol. 109, no. 9, pp. 909-913. Sep 2001.*Rejection Code: IN VITRO.
- 1093. Qu Q. S., Chen L. C., Gordon T., Amdur M., and Fine J. M. (1993). Alteration of Pulmonary Macrophage Intracellular pH Regulation by Sulfuric Acid Aerosol Exposures. *Toxicology and Applied Pharmacology* 121: 138-143. Rejection Code: MIXTURE, INHALE.
- 1094. Quistad, G. B., Fisher, K. J., Owen, S. C., Klintenberg, R., and Casida, J. E. (2005). Platelet-Activating Factor Acetylhydrolase: Selective Inhibition by Potent n-Alkyl Methylphosphonofluoridates. *Toxicol.Appl.Pharmacol.* 205: 149-156.
  - ; Habitat: T; Effect Codes: MOR, PHY, CEL

- 1095. Quistad Gary B, Liang Shannon N, Fisher Karl J, Nomura Daniel K, and Casida John E (2006). Each Lipase Has a Unique Sensitivity Profile for Organophosphorus Inhibitors. *Toxicological Sciences [Toxicol. Sci.]. Vol. 91, no. 1, pp. 166-172. May 2006.*Rejection Code: IN VITRO.
- 1096. Quistad, Gary B., Nomura, Daniel K., Sparks, Susan E., Segall, Yoffi, and Casida, John E. (2002). Cannabinoid CB1 receptor as a target for chlorpyrifos oxon and other organophosphorus pesticides. *Toxicology Letters* 135: 89-93.

  Rejection Code: IN VITRO.
- 1097. Quistad, Gary B., Sparks, Susan E., and Casida, John E. (2001). Fatty Acid Amide Hydrolase Inhibition by Neurotoxic Organophosphorus Pesticides. *Toxicology and Applied Pharmacology* 173: 48-55. Rejection Code: IN VITRO.
- 1098. Radeleff, R. D. and Kunz, S. E. (1972). Toxicity and Hazard of Diazinon, Ethion, and Supracide to Turkeys. *J.Econ.Entomol.* 65: 162-165.
  - ; Habitat: T; Effect Codes: BCM,MOR
- 1099. Ramirez, Andres D., Wong, Stephen K. F., and Menniti, Frank S. (2003). Pramipexole inhibits MPTP toxicity in mice by dopamine D3 receptor dependent and independent mechanisms. *European Journal of Pharmacology* 475: 29-35.

  Rejection Code: HUMAN HEALTH.
- 1100. RAMMELL CG and BENTLEY GR (1989). DECAY RATES OF ORGANOPHOSPHATE RESIDUES IN THE FLEECES OF SHEEP DIPPED FOR FLYSTRIKE CONTROL. *N Z J AGRIC RES*; *32* 213-218. Rejection Code: FATE.
- 1101. RAMMELL CG and BENTLEY GR (1990). Photodegradation of flystrike control organophosphate pesticides in wool. *NZJAGRIC RES*; *33* 85-88.

  <u>Rejection Code</u>: NO TOX DATA.
- 1102. Rao, A. V. and Sethunathan, N. (1985). Microbiology of the Rice Soils. *In: A.M. Wadhwani (Ed.), Rice Research in India, Indian Counc. of Agric. Res., New Delhi, India* 331-343.

  Rejection Code: REVIEW.
- 1103. RAO, P. SC, HORNSBY AG, and JESSUP RE (1985). INDICES FOR RANKING THE POTENTIAL FOR PESTICIDE CONTAMINATION OF GROUNDWATER. 44TH ANNUAL MEETING OF THE SOIL AND CROP SCIENCE SOCIETY OF FLORIDA, JACKSONVILLE BEACH, FLA., USA, OCT. 23-25, 1984. SOIL CROP SCI SOC FLA PROC; 44 1-8. Rejection Code: NO TOX DATA.
- 1104. RASHID KA and MUMMA RO (1986). SCREENING PESTICIDES FOR THEIR ABILITY TO DAMAGE BACTERIAL DNA. *J ENVIRON SCI HEALTH PART B PESTIC FOOD CONTAM AGRIC WASTES*; 21 319-334.

  Rejection Code: BACTERIA.
- 1105. Rasmussen, S. G. F., Carroll, F. I., Maresch, M. J., Jensen, A. D., Tate, C. G., and Gether, U. (2001).

  Biophysical Characterization of the Cocaine Binding Pocket in the Serotonin Transporter Using a Fluorescent Cocaine Analogue as a Molecular Reporter. *Journal of Biological Chemistry [J. Biol. Chem.]. Vol. 276, no. 7, pp. 4717-4723. 16 Feb 2001.*Rejection Code: NO TOX DATA.
- 1106. Rasmusssen, R. R., Poulsen, M. E., and Hansen, H. C. B. (2003). Distribution of multiple pesticide residues

in apple segments after home processing. *Food Additives and Contaminants [Food Addit. Contam.]. Vol. 20, no. 11, pp. 1044-1063. Nov 2003.*Rejection Code: FATE.

- 1107. RAWLINS BG, FERGUSON AJ, CHILTON PJ, ARTHURTON RS, REES JG, and BALDOCK JW (1998). Review of agricultural pollution in the Caribbean with particular emphasis on small island developing states. *MARINE POLLUTION BULLETIN; 36* 658-668.

  Rejection Code: REVIEW, SURVEY.
- 1108. Rawlins, S. C. and Mansingh, A. (1978). Patterns of Resistance to Various Acaricides in Some Jamaican Populations of Boophilus microplus. *J.Econ.Entomol.* 71: 956-960.
  - ; Habitat: T; Effect Codes: MOR
- 1109. Rebbeck, Joanne and Brennan, Eileen (1984). The effect of simulated acid rain and ozone on the yield and quality of glasshouse-grown alfalfa. *Environmental Pollution Series A, Ecological and Biological* 36: 7-16.

  Rejection Code: MIXTURE, NO TOX DATA.
- 1110. Reddy, G. P. V. and Murthy, M. M. K. (1989). Integrated Pest Management in Rice. *Pesticides* 23: 32F-32I.Rejection Code: NO TOX DATA.
- 1111. Regev, Ronit, Yeheskely-Hayon, Daniella, Katzir, Hagar, and Eytan, Gera D. (2005). Transport of anthracyclines and mitoxantrone across membranes by a flip-flop mechanism. *Biochemical Pharmacology* 70: 161-169.

  Rejection Code: METHODS.
- 1112. Relimpio, Angel M. (1978). Relation between chemical structure and biological activity of anticholinesterases. *General Pharmacology: The Vascular System* 9: 49-53. Rejection Code: NO COC.
- 1113. Rettich, F. (1977). The Susceptibility of Mosquito Larvae to Eighteen Insecticides in Czechoslovakia. *Mosq.News* 37: 252-257.
  - ; Habitat: A; Effect Codes: MOR
- 1114. Reyes, J. G. G., Dalla-Venezia, L., and Alvarez, M. G. L. (2002). Effect of Some Organophosphorus Pesticides on Oxygen Consumption of Shrimp, Litopenaeus vannamei. *Ecotoxicol.Environ.Saf.* 52: 134-136.
  - ; Habitat: A; Effect Codes: PHY
- 1115. RICHARDS, P., JOHNSON, M., RAY, D., and WALKER, C. (1999). Novel protein targets for organophosphorus compounds. *CHEMICO-BIOLOGICAL INTERACTIONS; 119-120* 503-511. Rejection Code: IN VITRO.
- 1116. Richards, Roberta L., Habbersett, Robert C., Scher, Irwin, Janoff, Andrew S., Schieren, Hugh P., Mayer, Lawrence D., Cullis, Pieter R., and Alving, Carl R. (1986). Influence of vesicle size on complement-dependent immune damage to liposomes. *Biochimica et Biophysica Acta (BBA) Biomembranes* 855: 223-230.

  Rejection Code: METHODS.
- 1117. RIDDLES PW and NOLAN, J. (1987). PROSPECTS FOR THE MANAGEMENT OF ARTHROPOD RESISTANCE TO PESTICIDES. SYMPOSIUM ON PARASITOLOGY: QUO VADIT HELD AT

- THE SIXTH INTERNATIONAL CONGRESS OF PARASITOLOGY, BRISBANE, QUEENSLAND, AUSTRALIA, AUGUST 24-29, 1986. INT J PARASITOL; 17 679-688. Rejection Code: MODELING.
- 1118. Riegert, P. W., Ewen, A. B., and Lockwood, J. A. (1997). A History of Chemical Control of Grasshoppers and Locusts 1940-1990. *In: S.K.Ganwere, M.C.Muralirangan, and M.Muralirangan (Eds.), The Bionomics of Grasshoppers, Katydids and Their Kin, Chapter 17, CAB International, Wallingford, England* 385-405.

  Rejection Code: REFS CHECKED/REVIEW.
- 1119. Risbo, Jens, Jorgensen, Kent, Sperotto, Maria M., and Mouritsen, Ole G. (1997). Phase behavior and permeability properties of phospholipid bilayers containing a short-chain phospholipid permeability enhancer. *Biochimica et Biophysica Acta (BBA) Biomembranes* 1329: 85-96. Rejection Code: METHODS.
- 1120. Ritter, W. F., Johnson, H. P., Lovely, W. G., and Molnau, M. (1974). Atrazine, Propachlor, and Diazinon Residues on Small Agricultural Watersheds: Runoff Losses, Persistence, and Movement. *Environ.Sci.Technol.* 8: 38-42.

  Rejection Code: NO SPECIES.
- 1121. RIVIERE JE (1992). DERMAL ABSORPTION AND METABOLISM OF XENOBIOTICS IN FOOD-PRODUCING ANIMALS. HUTSON, D. H., ET AL. (ED.). ACS SYMPOSIUM SERIES, 503. XENOBIOTICS AND FOOD-PRODUCING ANIMALS: METABOLISM AND RESIDUES; 202ND NATIONAL MEETING OF THE AMERICAN CHEMICAL SOCIETY, NEW YORK, NEW YORK, USA, AUGUST 25-30, 1991. XII+255P. AMERICAN CHEMICAL SOCIETY: WASHINGTON, DC, USA. ISBN 0-8412-2472-2.; 0 (0). 1992. 88-97.

  Rejection Code: METABOLISM, HUMAN HEALTH.
- 1122. RO KS, CHUNG KH, CHUNG YC, and TSAI F-J (1997). PESTICIDES AND HERBICIDES. *WATER ENVIRONMENT RESEARCH*; 69 664-667.

  Rejection Code: REVIEW, FATE.
- 1123. RO KS and LIBRA JA (1995). PESTICIDES AND HERBICIDES. *WATER ENVIRONMENT RESEARCH*; 67 548-552.

  Rejection Code: REVIEW.
- 1124. Roberts, Stephen M., Roth, Lois, Harbison, Raymond D., and James, Robert C. (1992). Cocaethylene hepatotoxicity in mice. *Biochemical Pharmacology* 43: 1989-1995.

  Rejection Code: MIXTURE.
- 1125. ROBINSON DE and MANSINGH, A. (1999). Insecticide contamination of Jamaican environment. IV.

  Transport of residues from coffee plantations in the Blue Mountains to coastal waters in eastern

  Jamaica. ENVIRONMENTAL MONITORING AND ASSESSMENT; 54 125-141.

  Rejection Code: FATE.
- 1126. Robinson, P. W. (1999). The Toxicity of Pesticides and Organics to Mysid Shrimps can be Predicted from Daphnia spp. Toxicity Data. *Water Res.* 33: 1545-1549.

  <u>Rejection Code</u>: MODELING/REFS CHECKED/REVIEW.
- 1127. Rodrigues, G. S., Pimentel, D., and Weinstein, L. H. (1998). In Situ Assessment of Pesticide Genotoxicity in an Integrated Pest Management Program: II. Maize Waxy Mutation Assay. *Mutat.Res.* 412: 245-250.
  - ; Habitat: T; Effect Codes: CEL

- 1128. Roex, E. W. M, Van Gestel, C. A. M., Van Wezel, A. P., and Van Straalen, N. M. (2000). Ratios Between Acute Aquatic Toxicity and Effects on Population Growth Rates in Relation to Toxicant Mode of Action. *Environ.Toxicol.Chem.* 19: 685-693.

  <u>Rejection Code</u>: REFS CHECKED/REVIEW.
- 1129. Rojakovick, Arnold S. and March, Ralph B. (1976). Insecticide cyclic nucleotide interactions: I.

  Quinoxalinedithiol derivatives: A new group of potent phosphodiesterase inhibitors. *Pesticide Biochemistry and Physiology* 6: 10-19.

  <u>Rejection Code</u>: IN VITRO.
- 1130. Rollins-Smith, L. A. and Hopkins, B. D. (1997). Immunotoxic Effects of Diazinon and Lead on the Developing Hematopoietic System of Xenopus laevis: The 7th Congress of the International Society of Developmental and Comparative Immunology. *Dev.Comp.Immunol.* 21: 121.

  Rejection Code: ABSTRACT.
- 1131. Rongsriyam, Y., Prownebon, S., and Hirakoso, S. (1968). Effects of Insecticides on the Feeding Activity of the Guppy, a Mosquito-Eating Fish, in Thailand. *Bull.W.H.O.* 39: 977-980.
  - ; Habitat: A; Effect Codes: MOR, BEH
- 1132. Rosen, P. (1967). The Susceptibility of Culex pipiens fatigans Larvae to Insecticides in Rangoon, Burma. *Bull.W.H.O.* 37: 301-310.
  - ; Habitat: A; Effect Codes: MOR
- 1133. ROSENTHAL WD and HIPP BW (1993). FIELD AND MODEL ESTIMATES OF PESTICIDE RUNOFF FROM TURFGRASS. RACKE, K. D. AND A. R. LESLIE (ED.). ACS SYMPOSIUM SERIES, 522. PESTICIDES IN URBAN ENVIRONMENTS: FATE AND SIGNIFICANCE; 203RD NATIONAL MEETING OF THE AMERICAN CHEMICAL SOCIETY, SAN FRANCISCO, CALIFORNIA, USA, APRIL 5-10, 1992. XII+378P. AMERICAN CHEMICAL SOCIETY: WASHINGTON, DC, USA. ISBN 0-8412-2627-X.; 0 (0). 1993. 208-213. Rejection Code: FATE.
- 1134. Royal Society of Chemistry (1991). Agrochemicals Handbook. *Third Edition, The Royal Society of Chemistry*.

  Rejection Code: NO TOX DATA.
- 1135. Ruppel, R. F. and Yun, Y. M. (1965). Ground-Applied Insecticides Against the Cereal Leaf Beetle. *J.Econ.Entomol.* 58: 41-46.
  - ; Habitat: T; Effect Codes: POP,MOR
- 1136. S. Bhatt, Ram, Hough, Leslie, and C. Richardson, Anthony (1975). The synthesis of 4′,6′-diacetamido-4′,6′-dideoxycellobiose hexa-acetate from lactose. *Carbohydrate Research* 43: 57-67.

  Rejection Code: METHODS.
- 1137. Sabaitis, C. P., Leong, B. K. J., Rop, D. A., and Aaron, C. S. (1999). Validation of Intratracheal Instillation as an Alternative for Aerosol Inhalation Toxicity Testing. *J.Appl.Toxicol.* 19: 133-140.
  - ; Habitat: T; Effect Codes: BCM
- 1138. Sabra, Mads C., Jorgensen, Kent, and Mouritsen, Ole G. (1996). Lindane suppresses the lipid-bilayer permeability in the main transition region. *Biochimica et Biophysica Acta (BBA) Biomembranes* 1282: 85-92.

- Rejection Code: METHODS.
- 1139. Saglio, P., Olsen, K. H., and Bretaud, S. (2001). Behavioral and Olfactory Responses to Prochloraz, Bentazone, and Nicosulfuron-Contaminated Flows in Goldfish. *Arch.Environ.Contam.Toxicol.* 41: 192-74.
  - ; Habitat: A; Effect Codes: BEH
- 1140. Saito, Seiki, Nishikawa, Toshiya, Yokoyama, Yoshie, and Moriwake, Toshio (1990). Efficient nucleophilic oxirane ring cleavage with dibutyltin diazide. *Tetrahedron Letters* 31: 221-224. Rejection Code: METHODS.
- 1141. SAKA, M., IIJIMA, K., ODANAKA, Y., and KATO, Y. (1998). Supercritical fluid extraction of pesticides in fruits and vegetables: Application of new polymer absorbent. *JOURNAL OF PESTICIDE SCIENCE*; 23 414-418.

  Rejection Code: METHODS.
- 1142. Sakr, S. A. and Gabr, S. A. (1992). Ultrastructural Changes Induced by Diazinon and Neopybuthrin in Skeletal Muscles of Tilapia nilotica. *Bull.Environ.Contam.Toxicol.* 48: 467-473.
  - ; Habitat: A; Effect Codes: CEL
- 1143. SALES, N., LEVOT GW, and HUGHES PB (1989). MONITORING AND SELECTION OF RESISTANCE TO PYRETHROIDS IN THE AUSTRALIAN SHEEP BLOWFLY LUCILIA-CUPRINA. *MED VET ENTOMOL*; 3 287-292.

  Rejection Code: SURVEY.
- 1144. Salman, Michael and Rottem, Shlomo (1995). The cell membrane of Mycoplasma penetrans: lipid composition and phospholipase A1 activity. *Biochimica et Biophysica Acta (BBA) Biomembranes* 1235: 369-377.

  Rejection Code: METHODS.
- 1145. Salvucci, Michael E. (2004). Potential for interactions between the carboxy- and amino-termini of Rubisco activase subunits. *FEBS Letters* 560: 205-209. Rejection Code: METHODS.
- 1146. SAMOKYSZYN VM, THOMAS CE, REIF DW, SAITO, M., and AUST SD (1988). RELEASE OF IRON FROM FERRITIN AND ITS ROLE IN OXYGEN RADICAL TOXICITIES. *DRUG METAB REV*; 19 283-304.

  Rejection Code: METABOLSIM.
- 1147. Sams, C., Cocker, J., and Lennard, M. S. (2004). Biotransformation of chlorpyrifos and diazinon by human liver microsomes and recombinant human cytochrome P450s (CYP). *Xenobiotica [Xenobiotica]*. *Vol. 34, no. 10, pp. 861-873. Oct 2004*.

  Rejection Code: HUMAN HEALTH.
- 1148. Sams, C., Mason, H. J., and Rawbone, R. (2000). Evidence for the activation of organophosphate pesticides by cytochromes P450 3A4 and 2D6 in human liver microsomes. *Toxicology Letters [Toxicol. Lett.]. Vol. 116, no. 3, pp. 217-221. 16 Aug 2000.*Rejection Code: HUMAN HEALTH.
- 1149. Sanchez-Camazano M., Iglesias-Jimenez E., and Sanchez-Martin M. J. (1997). City refuse compost and sodium dodecyl sulphate as modifiers of diazinon leaching in soil. *Chemosphere* 35: 3003-3012. Rejection Code: FATE.

- 1150. Sanchez-Camazano, M., Sanchez-Martin, M. J., Poveda, E., and Iglesias-Jimenez, E. (1996). Study of the effect of exogenous organic matter on the mobility of pesticides in soils using soil thin-layer chromatography. *Journal of Chromatography A, 754 (1-2) pp. 279-284, 1996*.

  Rejection Code: METHODS.
- 1151. Sanchez, M. E., Estrada, I. B., Martinez, O., Martin-Villacorta, J., Aller, A., and Moran, A. (2004).

  Influence of the application of sewage sludge on the degradation of pesticides in the soil . *Chemosphere* 57: 673-679.

  Rejection Code: FATE.
- 1152. Sancho, E., Ferrando, M. D., Gamon, M., and Andreu-Moliner, E. (1993). An Approach to the Diazinon Toxicity in the European Eel: Bioaccumulation Studies. *Sci.Total Environ.*(*Suppl.*) 461-468.
  - ; Habitat: A; Effect Codes: MOR, ACC
- 1153. Sanders, H. O. (1969). Toxicity of Pesticides to the Crustacean Gammarus lacustris. *Tech.Pap.No.25*, *U.S.D.I.*, *Bur.Sports Fish.Wildl.*, *Fish Wildl.Serv.*, *Washington*, *D.C.* 18 p. (Author Communication Used)(Used with Reference 732) (Publ in Part As 6797).
- 1154. Sanders, H. O. and Cope, O. B. (1968). The Relative Toxicities of Several Pesticides to Naiads of Three Species of Stoneflies. *Limnol.Oceanogr.* 13: 112-117 (Author Communication Used) (Publ in Part As 6797).
- 1155. Sanders, H. O. and Cope, O. B. (1966). Toxicities of Several Pesticides to Two Species of Cladocerans. *Trans.Am.Fish.Soc.* 95: 165-169 (Author Communication Used) (Publ in Part As 6797).
  - ; Habitat: A; Effect Codes: PHY
- 1156. Sands, William A. and Kusel, John R. (1992). Changes in the lateral diffusion of fluorescent lipid analogues in the surface membrane of adult male Schistosoma mansoni. *Molecular and Biochemical Parasitology* 53: 233-239.

  Rejection Code: NO TOXICANT.
- 1157. Sangwan, A. K., Chhabra, M. B., and Samantaray, S. (1988). Comparative efficacy of some pesticides against Hyalomma anatolicum anatolicum ticks in vitro. *Indian Veterinary Journal [INDIAN VET. J.]. Vol. 65, no. 12, pp. 1084-1087. 1988.*Rejection Code: IN VITRO.
- 1158. Sapozhnikova, Yelena, Bawardi, Ola, and Schlenk, Daniel (2004). Pesticides and PCBs in sediments and fish from the Salton Sea, California, USA. *Chemosphere* 55: 797-809.

  <u>Rejection Code</u>: SURVEY.
- 1159. Sastry, K. V. and Sharma, K. (1981). Diazinon-Induced Histopathological and Hematological Alterations in a Freshwater Teleost, Ophiocephalus punctatus. *Ecotoxicol.Environ.Saf.* 5: 329-340.
  - ; Habitat: A; Effect Codes: BCM
- 1160. Sato, M. E., Raga, A., Ceravolo, L. C., De souza Filho, M. F., Rossi, A. C., and De Moraes, G. J. (2001). Effect of Insecticides and Fungicides on the Interaction Between Members of the Mite Families Phytoseiidae and Stigmaeidae on Citrus. *Exp. Appl. Acarol.* 25: 809-818.
  - ; Habitat: T; Effect Codes: POP

- 1161. SATO, T., TAGUCHI, M., NAGASE, H., KITO, H., and NIIKAWA, M. (1998). Augmentation of allergic reactions by several pesticides. *TOXICOLOGY*; 126 41-53. Rejection Code: IN VITRO.
- 1162. Sattar, M. A. (1990). Fate of organophosphorus pesticides in soils. *Chemosphere* 20: 387-396. Rejection Code: FATE.
- 1163. SATTAR MA (1991). Degradation of diazinon in soils. *PAK J SCI IND RES*; *34* 274-276. Rejection Code: FATE.
- 1164. Savarie, P. J. and Bruggers, R. L. (1999). Candidate Repellents, Oral and Dermal Toxicants, and Fumigants for Brown Treesnake Control. *In: G.H.Rodda, Y.Sawai, D.Chiszar, and H.Tanaka (Eds.), Problem Snake Management: The Habu and the Brown Treesnake, Cornell Univ.Press, Ithaca, NY* 417-422.

  Rejection Code: REVIEW.
- 1165. Sawaya, Wajih N., Al-Awadhi, Fawzia A., Saeed, Talat, Al-Omair, Ali, Husain, Adnan, Ahmad, Nissar, Al-Omirah, Husam, Al-Zenki, Sameer, Khalafawi, Sherif, Al-Otaibi, Jamla, and Al-Amiri, Hanan (2000). Dietary intake of organophosphate pesticides in Kuwait. *Food Chemistry* 69: 331-338.

  Rejection Code: HUMAN HEALTH.
- 1166. Sawyer, T. W., Weiss, M. T., and Dickinson, T. (1996). Effect of Metabolism on the Anticholinesterase Activity of Carbamate and Organophosphate Insecticides in Neuron Culture. *In Vitro Toxicol*. 9: 343-352.
  Rejection Code: IN VITRO.
- 1167. SAWYER TW, WEISS MT, and DICKINSON, T. (1996). Effect of metabolism on the anticholinesterase activity of carbamate and organophosphate insecticides in neuron culture. *IN VITRO TOXICOLOGY*; 9 343-352.

  Rejection Code: IN VITRO.
- 1168. SCHAEFFER, A. (1993). PESTICIDE EFFECTS ON ENZYME ACTIVITIES IN THE SOIL ECOSYSTEM. BOLLAG, J.-M. AND G. STOTZKY (ED.). SOIL BIOCHEMISTRY, VOL. 8. XI+418P. MARCEL DEKKER, INC.: NEW YORK, NEW YORK, USA; BASEL, SWITZERLAND. ISBN 0-8247-9044-8.; 0 (0). 1993. 273-340. Rejection Code: BACTERIA.
- 1169. Schafer, E. W. (1972). The Acute Oral Toxicity of 369 Pesticidal, Pharmaceutical and Other Chemicals to Wild Birds. *Toxicol.Appl.Pharmacol.* 21: 315-330.
  - ; Habitat: T; Effect Codes: MOR
- 1170. Schafer, E. W. Jr. and Bowles, W. A. Jr. (1985). Acute Oral Toxicity and Repellency of 933 Chemicals to House and Deer Mice. *Arch.Environ.Contam.Toxicol.* 14: 111-129.
  - ; Habitat: T; Effect Codes: MOR
- 1171. Schafer, E. W. Jr., Bowles, W. A. Jr., and Hurlbut, J. (1983). The Acute Oral Toxicity, Repellency, and Hazard Potential of 998 Chemicals to One or more Species of Wild and Domestic Birds. *Arch.Environ.Contam.Toxicol.* 12: 355-382.
  - ; Habitat: T; Effect Codes: MOR
- 1172. SCHATTENBERG, H. J. III and HSU J-P (1992). Pesticide residue survey of produce from 1989 to 1991. *J AOAC (ASSOC OFF ANAL CHEM) INT; 75 (5). 1992. 925-933.*

- Rejection Code: SURVEY.
- 1173. SCHENCK FJ, WAGNER, R., HENNESSY MK, and OKRASINSKI, J. L. JR (1994). Screening procedure for organochlorine and organophosphorus pesticide residues in eggs using a solid-phase extraction cleanup and gas chromatographic detection. *JOURNAL OF AOAC INTERNATIONAL*; 77 1036-1040.

  Rejection Code: METHODS.
- 1174. SCHENKE, D. and GEMMEKE, H. (1999). Behavior of O,O-Diethyl- and O,O-Diethylthiophosphate in fecal samples under field conditions. 218TH NATIONAL MEETING OF THE AMERICAN CHEMICAL SOCIETY, PARTS 1 AND 2, NEW ORLEANS, LOUISIANA, USA, AUGUST 22-26, 1999. YABSTRACTS OF PAPERS AMERICAN CHEMICAL SOCIETY; 218 AGRO 118.

  Rejection Code: FATE.
- 1175. Schenke, Detlef (2000). Analytical method for the determination of O,O-diethyl phosphate and O,O-diethyl thiophosphate in faecal samples. *Chemosphere* 41: 1313-1320. Rejection Code: METHODS.
- 1176. Scheuhammer, A. M. and Wilson, L. K. (1990). Effects of lead and pesticides on delta -aminolevulinic acid dehydratase of ring doves (Streptopelia risoria). *Environmental Toxicology and Chemistry [ENVIRON. TOXICOL. CHEM.]. Vol. 9, no. 11, pp. 1379-1386. 1990.*Rejection Code: IN VITRO, MIXTURE.
- 1177. Scheunert, I., Mansour, M., Dorfler, U., and Schroll, R. (1993). Fate of Pendimethalin, Carbofuran and Diazinon Under Abiotic and Biotic Conditions. *Sci.Total Environ.* 132: 361-369. Rejection Code: FATE/NO SPECIES/NO TOX DATA.
- 1178. Scheunert, I., Mansour, M., Dorfler, U., and Schroll, R. (1993). Fate of pendimethalin, carbofuran and diazinon under abiotic and biotic conditions. *The Science of The Total Environment* 132: 361-369. Rejection Code: FATE.
- 1179. Scheunert, I., Mansour, M., Dorfler, U., and Schroll, R. (1993). Fate of Pendimethalin, Carbofuran and Diazinon Under Abiotic and Biotic Conditions. *Sci.Total Environ.* 132: 361-369. Rejection Code: FATE/NO SPECIES/NO TOX DATA.
- 1180. Schiff, K., Bay, S., and Stransky, C. (2002). Characterization of stormwater toxicants from an urban watershed to freshwater and marine organisms. *Urban Water [Urban Water]. Vol. 4, no. 3, pp. 215-227. Sep 2002.*Rejection Code: EFFLUENT.
- 1181. Schiff, K., Bay, S., and Stransky, C. (2002). Characterization of Stormwater Toxicants from an Urban Watershed to Freshwater and Marine Organisms. *Urban Water* 4: 215-227.

  <u>Rejection Code</u>: EFFLUENT.
- 1182. Schiff, K. and Sutula, M. (2004). Organophosphorus pesticides in storm-water runoff from Southern California (USA). *Environmental Toxicology and Chemistry [Environ. Toxicol. Chem.]. Vol. 23, no. 8, pp. 1815-1821. Aug 2004.*Rejection Code: FATE.
- 1183. Schoettger, R. A. (1973). Fish-Pesticide Research Laboratory. *In: Resour.Publ.No.121, Prog.Sport Fish.Res., Div.Fish.Res., Bur.Sport Fish.Wildl., U.S.D.I., Washington, D.C.* 2-17.
  - ; Habitat: A; Effect Codes: POP,PHY,ACC,REP,MOR,BCM
- 1184. Schole, J. and Schole, Chr. (1994). "Radical Theory" of Oxidative Phosphorylation and

- Photophosphorylation. *Journal of Theoretical Biology* 169: 197-207. Rejection Code: METABOLISM.
- 1185. Schuntner, C. A. and Roulston, W. J. (1968). A Resistance Mechanism in Organophosphorus-Resistant Strains of Sheep Blowfly (Lucilia cuprina). *Aust.J.Biol.Sci.* 21: 173-176.
  - ; Habitat: T; Effect Codes: BCM
- 1186. Schuntner, C. A. and Thompson, P. G. (1966). Detection and estimation of [14C]diazoxon in vivo by countercurrent distribution and inhibition assay. *Biochimica et Biophysica Acta (BBA) General Subjects* 115: 225-227.

  <u>Rejection Code</u>: METHODS.
- 1187. SCHUSTER DJ, KRING JB, and PRICE JF (1991). Association of the sweetpotato whitefly with a silverleaf disorder of squash. *HORTSCIENCE*; 26 155-156.

  Rejection Code: NO TOXICANT.
- 1188. SCHUSTER DJ, MUELLER TF, KRING JB, and PRICE JF (1990). Relationship of the sweetpotato whitefly to a new tomato fruit disorder in Florida (USA). *HORTSCIENCE*; 25 1618-1620. Rejection Code: NO TOXICANT.
- 1189. SCHWARTZ, S. (1995). AN UNUSUAL CASE OF ACUTE AGGRESSION IN A CAT ASSOCIATED WITH SERUM ORGANOPHOSPHATE DIAZINON. *FELINE PRACTICE*; 23 13-19. Rejection Code: INCIDENT.
- 1190. Schwarz, Stephan, Haest, Cees W. M., and Deuticke, Bernhard (1999). Extensive electroporation abolishes experimentally induced shape transformations of erythrocytes: a consequence of phospholipid symmetrization? *Biochimica et Biophysica Acta (BBA) Biomembranes* 1421: 361-379.

  Rejection Code: METHODS.
- 1191. Schweig, Arinin, Baumgartl, Horst, and Schulz, Reinhard (1991). IR and UV matrix photochemistry and solvent effects: the isomerization of diazocyclohexadienones (ortho quinone diazides) -- detection of molecules with the 1,2,3-benzoxadjazole structure. A UV/Vis and IR absorption and UV photoelectron spectroscopic investigation. *Journal of Molecular Structure* 247: 135-171. Rejection Code: METHODS.
- 1192. Scott, J. G. and Zhang, L. (2003). The house fly aliesterase gene (Md[alpha]E7) is not associated with insecticide resistance or P450 expression in three strains of house fly. *Insect Biochemistry and Molecular Biology* 33: 139-144.

  <u>Rejection Code</u>: NO SPECIES.
- 1193. Segal, Dina, Shalitin, Channa, Shalitin, Yechiel, Fischer, David R., and Stang, Peter J. (1996). Alkynyl phosphates are potent inhibitors of serine enzyme. *FEBS Letters* 392: 117-120. Rejection Code: NO SPECIES.
- 1194. Seguchi, K. and Asaka, S. (1981). Intake and Excretion of Diazinon in Freshwater Fishes. *Bull.Environ.Contam.Toxicol.* 27: 244-249.
  - ; Habitat: A; Effect Codes: ACC
- 1195. SEIFERT, J. (1992). PYRIMIDINYL PHOSPHOROTHIOATES AND CROTONAMIDE PHOSPHATES ALTER URINARY XANTHURENIC ACID EXCRETION IN MICE. 203RD ACS (AMERICAN CHEMICAL SOCIETY) NATIONAL MEETING, SAN FRANCISCO, CALIFORNIA, USA, APRIL 5-10, 1992. ABSTR PAP AM CHEM SOC; 203 (1-3). 1992. AGRO54.

  Rejection Code: ABSTRACT.

- 1196. SEIFERT, J. (1998). TOXICOLOGICAL SIGNIFICANCE OF HYPERGLYCEMIA INDUCED BY ORGANO-PHOSPHOROUS INSECTICIDES OPI'S. 216TH NATIONAL MEETING OF THE AMERICAN CHEMICAL SOCIETY, BOSTON, MASSACHUSETTS, USA, AUGUST 23-27, 1998. ABSTRACTS OF PAPERS AMERICAN CHEMICAL SOCIETY; 216 AGRO 89.

  Rejection Code: ABSTRACT.
- 1197. Seifert, Josef and Casida, John E. (1984). Neural microtubular and lysosomal phenyl valerate esterases and proteases in relation to organophosphate-induced delayed neurotoxicity. *Comparative Biochemistry and Physiology Part C: Comparative Pharmacology* 78: 271-276.

  Rejection Code: IN VITRO.
- 1198. Semel, M. (1959). Control of the Corn Earworm Attacking Sweet Corn. J. Econ. Entomol. 52: 1111-1114.
  - ; Habitat: T; Effect Codes: POP
- 1199. Seppen, Jurgen, Ramalho-Santos, Jaao, de Carvalho, Arselio P., ter Beest, Martin, Kok, Jan Willem, Pedroso de Lima, Maria C., and Hoekstra, Dick (1992). Interaction of clathrin with large unilamellar phospholipid vesicles at neutral pH. Lipid dependence and protein penetration. *Biochimica et Biophysica Acta (BBA) Biomembranes* 1106: 209-215.

  Rejection Code: METHODS.
- 1200. Setakana, P. and Tan, K. H. (1991). Insecticide Resistance and Multi-Resistance in Two Strains of Culex quinquefasciatus Say Larvae in Penang, Malaysia. *Mosquito-Borne Dis.Bull.* 8: 40-44.
  - ; Habitat: A; Effect Codes: MOR
- 1201. Sethunathan, N. (1973). Microbial Degradation of Insecticides in Flooded Soil and in Anaerobic Cultures. *Residue Rev.* 47: 143-166.

  <u>Rejection Code</u>: BACTERIA.
- 1202. Sethunathan, N., Caballa, S., and Pathak, M. D. (1971). Absorption and translocation of diazinon by rice plants from submerged soils ad paddy water and the persistence of residues in plant tissues. *J. Econ. Entomol. Vol. 64, no. 3, pp. 571-576. 1971.*Rejection Code: FATE.
- 1203. Sethunathan, N., Caballa, S., and Pathak, M. D. (1971). Absorption and Translocation of Diazinon by Rice Plants from Submerged Soils and Paddy Water and the Persistence of Residues in Plant Tissues. *J. Econ. Entomol.* 64: 571-576.
  - ; Habitat: T; Effect Codes: ACC
- 1204. Sethunathan, N. and MacRae, I. C. (1969). Some Effects of Diazinon on the Microflora of Submerged Soils. *Plant Soil* 30: 109-112.

  <u>Rejection Code</u>: BACTERIA.
- 1205. Sethunathan, N. and Pathak, M. D. (1972). Increased Biological Hydrolysis of Diazinon After Repeated Application in Rice Paddies. *J.Agric.Food Chem.* 20: 586-589.

  <u>Rejection Code</u>: FATE.
- 1206. Sethunathan, N. and Yoshida, T. (1969). Fate of Diazinon in Submerged Soil. *J.Agric.Food Chem.* 17: 1192-1195.
  - ; Habitat: T; Effect Codes: PHY
- 1207. Shain, Sydney A., Shaeffer, J. Christopher, and Boesel, Robert W. (1977). The effect of chronic ingestion

of selected pesticides upon rat ventral prostate homeostasis. *Toxicology and Applied Pharmacology* 40: 115-130.

Rejection Code: IN VITRO.

1208. Shalaby, A. A., Mostafa, A. A., and Allam, K. A. M. (2002). Field Studies on the Susceptibility of Housefly to Certain Insecticides in Nine Egyptian Governorates. *J.Egypt.Soc.Parasitol.* 32: 91-97.

; Habitat: T; Effect Codes: MOR

- 1209. Sharma, R. P. and Reddy, R. V. (1987). Toxic Effects of Chemicals on the Immune System. *In: T.J.Haley and W.O.Berndt (Eds.), Handbook of Toxicology, Chapter 15, Hemisphere Publ.Corp., Washington, D.C.* 555-591.

  Rejection Code: REFS CHECKED/REVIEW.
- 1210. Sharma, R. P. and Reddy, R. V. (1987). Toxic Effects of Chemicals on the Immune System. *In: T.J.Haley and W.O.Berndt (Eds.), Handbook of Toxicology, Chapter 15, Hemisphere Publ.Corp., Washington, D.C.* 555-591.

  Rejection Code: REFS CHECKED/REVIEW.
- 1211. Sharma, S. R., Singh, R. P., and Ahmed, S. R. (1985). Effect of different saline, alkaline salts, fertilizers, and surfactants on the movement of some phosphorus-containing pesticides in soils. *Ecotoxicology and Environmental Safety* 10: 339-350.

  Rejection Code: FATE.
- 1212. SHARMA SR, SINGH RP, and AHMED SR (1986). Effect of different salt leachates on the movement of some phosphorus containing pesticides in soils using thin-layer chromatography. *ECOTOXICOL ENVIRON SAF*; 11 229-240.

  Rejection Code: FATE.
- 1213. Sharom, M. S., Miles, J. R. W., Harris, C. R., and McEwen, F. L. (1980). Behaviour of 12 insecticides in soil and aqueous suspensions of soil and sediment. *Water Research* 14: 1095-1100.

  Rejection Code: FATE.
- 1214. Sharom, M. S., Miles, J. R. W., Harris, C. R., and McEwen, F. L. (1980). Behaviour of 12 Insecticides in Soil and Aqueous Suspensions of Soil and Sediment. *Water Res.* 14: 1095-1100. Rejection Code: FATE.
- 1215. Sharom, M. S., Miles, J. R. W., Harris, C. R., and McEwen, F. L. (1980). Persistence of 12 insecticides in water. *Water Research* 14: 1089-1093.

  Rejection Code: FATE.
- 1216. Sharom, M. S., Miles, J. R. W., Harris, C. R., and McEwen, F. L. (1980). Persistence of 12 Insecticides in Water. *Water Res.* 14: 1089-1093.

  Rejection Code: FATE/NO TOX DATA.
- 1217. Shavnin, Sergei A., Pedroso de Lima, Maria C., Fedor, Jane, Wood, Periann, Bentz, Joe, and Duzgunes, Nejat (1988). Cholesterol affects divalent cation-induced fusion and isothermal phase transitions of phospholipid membranes. *Biochimica et Biophysica Acta (BBA) Biomembranes* 946: 405-416.

  Rejection Code: METHODS.
- 1218. SHAW, A., LIN YJ, and PFEIL, E. (1997). QUALITATIVE AND QUANTITATIVE ANALYSIS OF DIAZINON IN FABRIC EXPOSED TO VARIOUS SIMULATED SUNLIGHT AND HUMIDITY CONDITIONS. BULLETIN OF ENVIRONMENTAL CONTAMINATION AND

- *TOXICOLOGY; 59* 389-395. Rejection Code: FATE.
- 1219. Shaw, R. D., Cook, M., and Carson, R. E. Jr. (1968). Developments in the Resistance Status of the Southern Cattle Tick to Organophosphorus and Carbamate Insecticides. *J.Econ.Entomol.* 61: 1590-1594.
  - ; Habitat: T; Effect Codes: MOR
- 1220. Shaw, R. D., Thompson, G. E., and Baker, J. A. F. (1967). Resistance to Cholinesterase-Inhibitors in the Blue Tick, Boophilus decoloratus, in South Africa. *Vet.Rec.* 81: 548-549.
  - ; Habitat: T; Effect Codes: MOR
- 1221. Shawali, Ahmad S., Farag, Ahmad M., Albar, Hassan A., and Dawood, Kamal M. (1993). Facile Syntheses of Bi-1,2,4-triazoles via hydrazonyl halides. *Tetrahedron* 49: 2761-2766. Rejection Code: METHODS.
- 1222. Shellenberger, T. E., Bridgman, R. M., and Newell, G. W. (1965). inhibition of rabbit whole blood cholinesterase following intravenous infusion of a diethyl organophosphate inhibitor and reactivation with 2-PAM. *Life Sciences* 4: 1973-1979.

  Rejection Code: HUMAN HEALTH.
- 1223. Shemer, Hilla and Linden, Karl G. (Degradation and by-product formation of diazinon in water during UV and UV/H2O2 treatment. *Journal of Hazardous Materials* In Press, Corrected Proof. Rejection Code: FATE.
- 1224. Shen, B. and Shen, Q. (1991). Pesticide Pollution. *J.Environ.Sci.*(*China*) 3: 31-48. Rejection Code: REFS CHECKED/REVIEW.
- 1225. Shen, B. and Shen, Q. (1991). Pesticide Pollution. *J.Environ.Sci.(China)* 3: 31-48. Rejection Code: REFS CHECKED/REVIEW.
- 1226. Shen, B. and Shen, Q. (1991). Pesticide Pollution. *J.Environ.Sci.*(*China*) 3: 31-48. Rejection Code: REFS CHECKED/REVIEW.
- 1227. Shigehisa, H. and Shiraishi, H. (1998). Biomonitoring with shrimp to detect seasonal change in river water toxicity. *Environmental Toxicology and Chemistry [Environ. Toxicol. Chem.]. Vol. 17, no. 4, pp. 687-694. Apr 1998.*Rejection Code: SURVEY.
- 1228. Shin, S. W., Chung, N. I., Kim, J. S., Chon, T. S., Kwon, O. S., Lee, S. K., and Koh (2001). Effect of Diazinon on Behavior of Japanese Medaka (Oryzias latipes) and Gene Expression of Tyrosine Hydroxylase as a Biomarker. *J. Environ. Sci. Health Part B* 36: 783-795.
  - ; Habitat: A; Effect Codes: BEH,CEL
- 1229. Shiraishi, Hiroaki, Pula, Flutra, Otsuki, Akira, and Iwakuma, Toshio (1988). Behaviour of pesticides in Lake Kasumugaura, Japan. *The Science of The Total Environment* 72: 29-42.

  Rejection Code: FATE.
- 1230. Shirasu, Y., Moriya, M., Tezuka, H., Teramoto, S., Ohta, T., and Inoue, T. (1981). Mutagenicity Screening Studies on Pesticides. *Environ.Mutagen.Carcinogens* 331-335.

  <u>Rejection Code</u>: BACTERIA/IN VITRO/NO CONC.

- 1231. Shishido, Takashi and Fukami, Jun-ichi (1972). Enzymatic hydrolysis of diazoxon by rat tissue homogenates. *Pesticide Biochemistry and Physiology* 2: 39-50.

  <u>Rejection Code</u>: IN VITRO.
- 1232. Shishido, Takashi, Usui, Kenji, and Fukami, Jun-ichi (1972). Oxidative metabolism of diazinon by microsomes from rat liver and cockroach fat body. *Pesticide Biochemistry and Physiology* 2: 27-38.
  Rejection Code: IN VITRO.
- 1233. Shishido, Takashi, Usui, Kenji, Sato, Motomu, and Fukami, Jun-ichi (1972). Enzymatic conjugation of diazinon with glutathione in rat and American cockroach. *Pesticide Biochemistry and Physiology* 2: 51-63.

  Rejection Code: IN VITRO.
- 1234. Shlosberg, A., Bellaiche, M., Hanji, V., and Ershov, E. (1996). Treatment of Anticholinesterase Toxicoses in Birds. *Israel J.Vet.Med.* 51: 129.
  - ; Habitat: T; Effect Codes: MOR
- 1235. Shvo, Youval and Goldman-Lev, Vered (2002). Catalytic oxidation of alcohols with allyl diethyl phosphate and palladium acetate. *Journal of Organometallic Chemistry* 650: 151-156. Rejection Code: METHODS.
- 1236. Sibley, P. K., Chappel, M. J., George, T. K., Solomon, K. R., and Liber, K. (2000). Integrating Effects of Stressors Across Levels of Biological Organization: Examples Using Organophosphorus Insecticide Mixtures in Field-Level Exposures. *J.Aquat.Ecosyst.Stress Recovery* 7: 117-130.

  Rejection Code: MIXTURE.
- 1237. Silva, Liana, Coutinho, Ana, Fedorov, Alexander, and Prieto, Manuel (2003). Solution conformation of a nitrobenzoxadiazole derivative of the polyene antibiotic nystatin: a FRET study. *Journal of Photochemistry and Photobiology B: Biology* 72: 17-26.

  Rejection Code: METHODS.
- 1238. Silvius, John R. (2005). Partitioning of membrane molecules between raft and non-raft domains: Insights from model-membrane studies: Lipid Rafts: From Model Membranes to Cells. *Biochimica et Biophysica Acta (BBA) Molecular Cell Research* 1746: 193-202.

  Rejection Code: METHODS.
- 1239. SIMINSZKY, B., CORBIN FT, WARD ER, FLEISCHMANN TJ, and DEWEY RE (1999). Expression of a soybean cytochrome P450 monooxygenase cDNA in yeast and tobacco enhances the metabolism of phenylurea herbicides. *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*; *96* 1750-1755.

  Rejection Code: METABOLISM.
- 1240. Simplicio, A. L. and Vilas Boas, L. (1999). Validation of a solid-phase microextraction method for the determination of organophosphorus pesticides in fruits and fruit juice. *Journal of Chromatography A, 833 (1) pp. 35-42, 1999*.

  Rejection Code: METHODS.
- 1241. Singh Brajesh K, Walker Allan, Morgan JAlun W, and Wright Denis J (2004). Biodegradation of Chlorpyrifos by Enterobacter Strain B-14 and Its Use in Bioremediation of Contaminated Soils. Applied and Environmental Microbiology [Appl. Environ. Microbiol.]. Vol. 70, no. 8, pp. 4855-4863. Aug 2004.

  Rejection Code: BACTERIA.

- 1242. Singh, Brajesh K., Walker, Allan, and Wright, Denis J. (2005). Cross-enhancement of accelerated biodegradation of organophosphorus compounds in soils: Dependence on structural similarity of compounds. *Soil Biology and Biochemistry* 37: 1675-1682.

  Rejection Code: FATE.
- 1243. Singh, J. and Singh, D. K. (2005). Dehydrogenase and Phosphomonoesterase Activities in Groundnut (Arachis hypogaea L.) Field After Diazinon, Imidacloprid and Lindane Treatments. *Chemosphere* 60: 32-42.
  Rejection Code: NO SPECIES.
- 1244. Singh, P. K. (1973). Effect of Pesticides on Blue-Green Algae. Arch. Mikrobiol. 89: 317-320.
  - ; Habitat: A; Effect Codes: GRO
- 1245. Singh, R. M. and Sharma, A. (1991). Assessment of Cytotoxic Effect of Pesticides on Zea mays. *Geobios* 18: 228-231.
  - ; Habitat: T; Effect Codes: CEL
- 1246. Singh, S. P. and Jalali, S. K. (1998). Impact of Pesticides on Natural Enemies of Agricultural Pests. *In: G.S.Dhaliwal, N.S.Randhawa, R.Arora, and A.K.Dhawan (Eds.), Ecological Agriculture and Sustainable Development, Volume 2, Proc. of Int. Conf. on Ecological Agriculture: Towards Sustainable Development, Nov.15-17, 1997, Indian Ecol. Soc., Ludhiana, India* 162-175.
  Rejection Code: REFS CHECKED/REVIEW.
- 1247. Singmaster, J. A. (1990). Old and Nasty Pesticides. *Agrichemical Age* 4. Rejection Code: REFS CHECKED/REVIEW.
- 1248. Skinner, C. S. and Kilgore, W. W. (1982). Acute Dermal Toxicities of Various Organophosphate Insecticides in Mice. *J.Toxicol.Environ.Health* 9: 491-497.
  - ; Habitat: T; Effect Codes: MOR
- 1249. SKIPPER HD, WOLLUM, A. G. II, TURCO RF, and WOLF DC (1996). Microbiological aspects of environmental fate studies of pesticides. *WEED TECHNOLOGY; 10* 174-190. <u>Rejection Code</u>: FATE.
- 1250. Skoog, F. E., Cowan, F. T., and Connin, R. V. (1961). Laboratory and Field Tests of New Insecticides for Grasshopper Control. *J.Econ.Entomol.* 54: 170-174.
  - ; Habitat: T; Effect Codes: MOR
- 1251. Slotte, J. Peter (1995). Effect of sterol structure on molecular interactions and lateral domain formation in monolayers containing dipalmitoyl phosphatidylcholine. *Biochimica et Biophysica Acta (BBA) Biomembranes* 1237: 127-134.

  Rejection Code: METHODS.
- 1252. Slotte, J. Peter (1995). Lateral domain formation in mixed monolayers containing cholesterol and dipalmitoylphosphatidylcholine or N-palmitoylsphingomyelin. *Biochimica et Biophysica Acta* (*BBA*) *Biomembranes* 1235: 419-427. Rejection Code: METHODS.
- 1253. Slotte, J. Peter and Mattjus, Peter (1995). Visualization of lateral phases in cholesterol and phosphatidylcholine monolayers at the air/water interface a comparative study with two different reporter molecules. *Biochimica et Biophysica Acta (BBA) Lipids and Lipid Metabolism* 1254:

22-29.

Rejection Code: NO TOX DATA.

- 1254. Smital, T., Luckenbach, T., Sauerborn, R., Hamdoun, A. M., Vega, R. L., and Epel, D. (2004). Emerging Contaminants Pesticides, PPCPs, Microbial Degradation Products and Natural Substances as Inhibitors of Multixenobiotic Defense in Aquatic Organisms. *Mutat.Res.* 552: 101-117. Rejection Code: REVIEW.
- 1255. Smith, B. R., Dauterman, W. C., and Hodgson, Ernest (1974). Selective inhibition of the metabolism of diazinon and diazoxon in vitro by piperonyl butoxide, NIA 16824, and 1-(2-isopropylphenyl)imidazole. *Pesticide Biochemistry and Physiology* 4: 337-345. Rejection Code: IN VITRO.
- 1256. Smith, F. F., Ota, A. K., and Boswell, A. L. (1970). Insecticides for Control of the Greenhouse Whitefly. *J.Econ. Entomol.* 63: 522-527.

; Habitat: T; Effect Codes: MOR,POP

- 1257. Smith, J. W. M. (1979). Triforine Sensitivity in Lettuce: A Potentially Useful Genetic Marker. *Euphytica* 28: 351-360.
  - ; Habitat: T; Effect Codes: MOR, CEL
- 1258. SMOLEN JM and STONE AT (1997). Divalent metal ion-catalyzed hydrolysis of phosphorothionate ester pesticides and their corresponding oxonates. *ENVIRONMENTAL SCIENCE & TECHNOLOGY*; 31 1664-1673.

  Rejection Code: FATE.
- 1259. Snoep, J. J., Sol, J., Sampimon, O. C., Roeters, N., Elbers, A. R. W., Scholten, H. W., and Borgsteede, F. H. M. (2002). Myiasis in sheep in The Netherlands. *Veterinary Parasitology* 106: 357-363. Rejection Code: SURVEY.
- 1260. SOLARIS Consumer Affairs for Ortho Products (1998). SOLARIS Consumer Affairs for Ortho Products.

  \*\*SOLARIS Consumer Affairs for Ortho Products, Personal Communication.\*\*

  Rejection Code: ABSTRACT.
- 1261. Soleas, G. J., Yan, J., Hom, K., and Goldberg, D. M. (2000). Multiresidue analysis of seventeen pesticides in wine by gas chromatography with mass-selective detection. *Journal of Chromatography A*, 882 (1-2) pp. 205-212, 2000.

  Rejection Code: METHODS.
- 1262. Soliman, S. A., Sovocool, G. W., Curley, A., Ahmed, N. S., El-Fiki, S., and El-Sebae, A. K. (1982). Two Acute Human Poisoning Cases Resulting from Exposure to Diazinon Transformation Products in Egypt. *Arch.Environ.Health* 37: 207-212.

  Rejection Code: HUMAN HEALTH.
- 1263. Solomon, K. R., MacDonald, S., Surgeoner, G., and Harris, C. R. (1990). Housefly Resistance to Pyrethroids. *Pyrethrum Post* 17: 146-152.

  Rejection Code: REVIEW.
- 1264. Sonnet, P. E., Lye, T. L., and Sackett, R. R. (1978). Effects of Selected Herbicides on the Toxicity of Several Insecticides to Honey Bees. *Environ.Entomol.* 7: 254-256.

; Habitat: T; Effect Codes: MOR

- 1265. SORANNO TM and SULTATOS LG (1992). Biotransformation of the insecticide parathion by mouse brain. *TOXICOL LETT (AMST)*; 60 (1). 1992. 27-38.

  Rejection Code: NO COC.
- 1266. Sot, Jesus, Goni, Felix M., and Alonso, Alicia (2005). Molecular associations and surface-active properties of short- and long-N-acyl chain ceramides. *Biochimica et Biophysica Acta (BBA) Biomembranes* 1711: 12-19.

  Rejection Code: METHODS.
- 1267. SOUTH DB and ZWOLINSKI JB (1996). Chemicals used in southern forest nurseries. SOUTHERN JOURNAL OF APPLIED FORESTRY; 20 127-135.

  Rejection Code: NO TOX DATA.
- 1268. Sovocool, G. W., Harless, R. L., Bradway, D. E., Wright, L. H., Lores, E. M., and Feige, L. E. (1981). The Recognition of Diazinon, an Organophosphorus Pesticide, when Found in Samples in the Form of Decomposition Products. *J.Anal.Toxicol.* 5: 73-80.

  Rejection Code: HUMAN HEALTH.
- 1269. Spradbery, J. P. and Tozer, R. S. (1996). The Efficacy of Diazinon Impregnated Ear Tags Against Buffalo Fly and Resulting Weight Gains and Diazinon Residues in Meat and Milk. *Aust.Vet.J.* 73: 6-10. Rejection Code: MIXTURE.
- 1270. Sprenger, Wander W., Dijkstra, Annereinou, Zwart, Gabriel J. M., van Agterveld, Miranda P., van Noort, Paul C. M., and Parsons, John R. (2003). Competition of a parathion-hydrolyzing Flavobacterium with bacteria from ditch water in carbon-, nitrate- and phosphate-limited continuous cultures. *FEMS Microbiology Ecology* 43: 45-53.

  Rejection Code: BACTERIA.
- 1271. Srinivas Rao, Chennamaneni, Venkateswarlu, Vobalaboina, and Achaiah, Garlapati (2006). Quaternary salts of 4,3' and 4,4' bis-pyridinium monooximes. Part 2: Synthesis and biological activity. *Bioorganic & Medicinal Chemistry Letters* 16: 2134-2138.

  Rejection Code: IN VITRO.
- 1272. Stadnichenko, A. P., Ivanenko, L. D., and Sitnjakowskaja, A. M. (1987). Effect of Phenol and Pesticides on Physical and Chemical Properties of Haemolymph of Gastropods (Gastopoda, Pulmonata)

  Infected with Trematode Parthenits. *Parazitologiya (Leningr.)* 21: 716-720 (RUS) (ENG ABS).
  - ; Habitat: A; Effect Codes: BCM
- 1273. Stadnyk, L., Campbell, R. S., and Johnson, B. T. (1971). Pesticide Effect on Growth and C14 Assimilation in a Freshwater Alga. *Bull.Environ.Contam.Toxicol.* 6: 1-8.
  - ; Habitat: A; Effect Codes: PHY
- 1274. STAMER JK and WIECZOREK ME (1996). PESTICIDE DISTRIBUTION IN SURFACE WATER.

  \*\*AMERICAN WATER WORKS ASSOCIATION JOURNAL; 88 79-87.

  \*\*Rejection Code: FATE.\*\*
- 1275. Stanek, Katja, Drobne, Damjana, and Trebse, Polonca (Linkage of biomarkers along levels of biological complexity in juvenile and adult diazinon fed terrestrial isopod (Porcellio scaber, Isopoda, Crustacea). *Chemosphere* In Press, Corrected Proof.

  Rejection Code: NO SOURCE.
- 1276. Steen, R. J. C. A., Leonards, P. E. G., Brinkman, U. A. T., Barcelo, J., Tronczynski, J., Albanis, T. A., and Cofino, W. P. (1999). Ecological Risk Assessment of Agrochemicals in European Estuaries.

*Environ.Toxicol.Chem.* 18: 1574-1581. Rejection Code: NO TOX DATA.

- 1277. Steen, R. J. C. A., van der Vaart, J., Hiep, M., Van Hattum, B., Cofino, W. P., and Brinkman, U. A. Th. (2001). Gross fluxes and estuarine behaviour of pesticides in the Scheldt Estuary (1995-1997). *Environmental Pollution* 115: 65-79. Rejection Code: FATE.
- 1278. STEIN, R., ANDO, C., and WHITE, J. (1992). MONITORING REGIONAL AERIAL MOVEMENT AND DEPOSITION OF THREE ORGANOPHOSPHATE PESTICIDES. 203RD ACS (AMERICAN CHEMICAL SOCIETY) NATIONAL MEETING, SAN FRANCISCO, CALIFORNIA, USA, APRIL 5-10, 1992. ABSTR PAP AM CHEM SOC; 203 (1-3). 1992. AGRO98.

  Rejection Code: SURVEY.
- 1279. Steinberg, C. E. W., Sturm, A., Kelbel, J., Lee, S. K., Hertkorn, N., Freitag, D., and Kettrup, A. A. (1992). Changes of Acute Toxicity of Organic Chemicals to Daphnia magna in the Presence of Dissolved Humic Material (DHM). *Acta Hydrochim.Hydrobiol.* 20: 326-332.
  - ; Habitat: A; Effect Codes: MOR
- 1280. Steinberg, C. E. W., Xu, Y., Lee, S. K., Freitag, D., and Kettrup, A. (1993). Effect of Dissolved Humic Material (DHM) on Bioavailability of Some Organic Xenobiotics to Daphnia magna. *Chem.Spec.Bioavail.* 5: 1-9.
  - ; Habitat: A; Effect Codes: ACC
- 1281. Stelzle, Martin and Sackmann, Erich (1989). Sensitive detection of protein adsorption to supported lipid bilayers by frequency-dependent capacitance measurements and microelectrophoresis.

  \*\*Biochimica et Biophysica Acta (BBA) Biomembranes 981: 135-142.\*\*

  \*\*Rejection Code: METHODS.\*\*
- 1282. Stephan, C. E., Mount, D. I., Hansen, D. J., Gentile, J. H., Chapman, G. A., and Brungs, W. A. (1985).

  Guidelines for Deriving Numerical National Water Quality Criteria for the Protection of Aquatic Organisms and Their Uses, National Technical Information Services, Springfield, VA. *U.S.EPA* (PB85-227049).

  Rejection Code: METHODS.
- 1283. Stevens, M. M. (1991). Insecticide Treatments Used Against a Rice Bloodworm, Chironomus tepperi (Diptera: Chironomidae): Toxicity and Residual Effects in Water. *J.Econ.Entomol.* 84: 795-800.
  - ; Habitat: A; Effect Codes: MOR
- 1284. Stevenson, J. H. (1978). The Acute Toxicity of Unformulated Pesticides to Worker Honey Bees (Apis mellifera L.). *Plant Pathol.* 27: 38-40.
  - ; Habitat: T; Effect Codes: MOR
- 1285. Stillwell, William, Jenski, Laura J., Zerouga, Mustapha, and Dumaual, Alfred C. (2000). Detection of lipid domains in docosahexaenoic acid-rich bilayers by acyl chain-specific FRET probes. *Chemistry and Physics of Lipids* 104: 113-132.

  Rejection Code: METHODS.
- 1286. Stillwell, William, Yu Fong Cheng, and Wassall, Stephen R. (1990). Plant sterol inhibition of abscisic acidinduced perturbations in phospholipid bilayers. *Biochimica et Biophysica Acta (BBA) -Biomembranes* 1024: 345-351.

- Rejection Code: METHODS.
- 1287. STIMMANN MW and FERGUSON MP (1990). PROGRESS REPORT VICE PRESIDENT'S TASK FORCE ON PEST CONTROL ALTERNATIVES POTENTIAL PESTICIDE USE CANCELLATIONS IN CALIFORNIA USA. *CALIF AGRIC*; 44 12-16.

  Rejection Code: NO TOX DATA.
- 1288. Stone, W. B. and Gradoni, P. B. (1985(Recd). RECENT POISONINGS OF WILD BIRDS BY DIAZINON AND CARBOFURAN. *Northeast Environ Sci* 4 : 1986).

  Rejection Code: SURVEY/INCIDENT.
- 1289. Stone, W. B. and Knoch, H. (1982). American Brant Killed on Golf Courses by Diazinon. *New York Fish and Game Journal [N.Y. FISH. GAME J.]. Vol. 29, no. 1, pp. 95-96. 1982.*Rejection Code: INCIDENT.
- Stone, W. B. and Knoch, H. (1982). American Brant Killed on Golf Courses by Diazinon. N.Y.Fish Game J. 29: 95-96.Rejection Code: REFS CHECKED/REVIEW.
- 1291. Stratton, G. W. and Corke, C. T. (1981). Interaction of Permethrin with Daphnia magna in the Presence and Absence of Particulate Material. *Environ.Pollut.* 24: 135-144.
  - ; Habitat: A; Effect Codes: MOR
- 1292. Strauss, John D., Zeugner, Claudia, and Caspar Ruegg, J. (1992). The positive inotropic calcium sensitizer EMD 53998 antagonizes phosphate action on cross-bridges in cardiac skinned fibers. *European Journal of Pharmacology: Molecular Pharmacology* 227: 437-441.

  Rejection Code: IN VITRO.
- 1293. Straw, N. A., Fielding, N. J., and Waters, A. (1996). Phytotoxicity of Insecticides Used to Control Aphids on Sitka Spruce, Picea sitchensis (Bong.) Carr. *Crop Prot.* 15: 451-459.
  - ; Habitat: T; Effect Codes: GRO, MOR
- 1294. Stromborg, K. L. (1977). Seed Treatment Pesticide Effects on Pheasant Reproduction at Sublethal Doses. *J.Wildl.Manag.* 41: 632-642.
  - ; Habitat: T; Effect Codes: BEH,MOR,REP,GRO
- 1295. Stromborg, K. L., Beyer, W. N., and Kolbe, E. (1982). Diazinon Residues in Insects from Sprayed Tobacco. *Chem.Ecol.* 1: 93-97.
  - ; Habitat: T
- 1296. Struger, J., Bishop, C. A., Pettit, K. E., and Tse, H. (1993). Environmental Fate and Effects of Organophosphorus Insecticides on Amphibians in a Muck Crop Growing Area of Ontario, Canada. *In: Soc.Environ.Toxicol.Chem, 14th Annu.Meet., Ecological Risk Assessment: Lessons Learned?, Nov.14-18, 1993, Houston, TX* 151.

  Rejection Code: ABSTRACT.
- 1297. Struger, J., Boyter, D., Licsko, Z. J., and Johnson, B. D. (1995). Environmental concentrations of urban pesticides.

  Rejection Code: SURVEY.
- 1298. Stubbs, Christopher D., Williams, Brian Wesley, Boni, Lawrence T., Hoek, Jan B., Taraschi, Theodore F.,

and Rubin, Emanuel (1989). On the use of N-(7-nitrobenz-2-oxa-1,3-diazol-4-yl)phosphatidylethnolamine in the study of lipid polymorphism. *Biochimica et Biophysica Acta (BBA) - Biomembranes* 986: 89-96. Rejection Code: METHODS.

- 1299. Sudo, M., Kunimatsu, T., and Matsui, S. (ed) (1992). Characteristics of pesticides runoff from golf links. Rejection Code: SURVEY.
- 1300. Sudo, Miki, Kunimatsu, Takao, and Okubo, Takuya (2002). Concentration and loading of pesticide residues in Lake Biwa basin (Japan). *Water Research* 36: 315-329.

  <u>Rejection Code</u>: SURVEY.
- 1301. Sudoi, V. (1991). Effects of Insecticides on Mortality of Fried Egg Scale (Aspidiotus sp. Homoptera: Diaspidae) on Tea. *Tests Agrochem. Cultiv.* 12: 26-27.

; Habitat: T; Effect Codes: MOR

- 1302. Suenaga, Miwa, Lee, Sannamu, Park, Nam Gyu, Aoyagi, Haruhiko, Kato, Tesuo, Umeda, Akiko, and Amako, Kazunobu (1989). Basic amphipathic helical peptides induce destabilization and fusion of acidic and neutral liposomes. *Biochimica et Biophysica Acta (BBA) Biomembranes* 981: 143-150.

  Rejection Code: METHODS.
- 1303. SUETT DL, FOURNIER J-C, PAPADOPOULOU-MOURKIDOU, E., PUSSEMIER, L., and SMELT, J. (1996). ACCELERATED DEGRADATION THE EUROPEAN DIMENSION. *SOIL BIOLOGY & BIOCHEMISTRY*; 28 1741-1748.

  Rejection Code: FATE.
- 1304. Sugimoto, Takanori, Wada, Yoko, Yamamura, Shosuke, and Ueda, Minoru (2001). Fluorescence study on the nyctinasty of Cassia mimosoides L. using novel fluorescence-labeled probe compounds. *Tetrahedron* 57: 9817-9825.

  Rejection Code: METHODS.
- 1305. SUGIYAMA, S., IGARASHI, T., UENO, K., SATOH, T., and KITAGAWA, H. (1985). INCREASE IN ANTICARBOXYLESTERASE ACTION OF ORGANOPHOSPHOROTHIOATES BY NAD INVITRO. *RES COMMUN CHEM PATHOL PHARMACOL; 48* 455-458.

  Rejection Code: IN VITRO.
- 1306. Suhling, F., Befeld, S., Haeusler, M., Katzur, K., Lepkojus, S., and Mesleard, F. (2000). Effects of Insecticide Applications on Macroinvertebrate Density and Biomass in Rice-Fields in the Rhonedelta, France. *Hydrobiologia* 431: 69-79.

  <u>Rejection Code</u>: MIXTURE.
- 1307. Sundberg, Richard J. and Baxter, Ellen W. (1986). Photochemistry of quinone diazides. Intramolecular oxygen transfer and carbenoid addition during photolysis of N-allylsulfonamido quinone diazides. *Tetrahedron Letters* 27: 2687-2690.

  Rejection Code: METHODS.
- 1308. Surewicz, W. K., Epand, R. M., Vail, W. J., and Moscarello, M. A. (1985). Aliphatic aldehydes promote myelin basic protein-induced fusion of phospholipid vesicles. *Biochimica et Biophysica Acta (BBA) Biomembranes* 820: 319-323.

  Rejection Code: METHODS.
- 1309. Surewicz, Witold K., Epand, Richard M., Epand, Raquel F., Hallett, F. Ross, and Moscarello, Mario A. (1986). Modulation of myelin basic protein-induced aggregation and fusion of liposomes by

cholesterol, aliphatic aldehydes and alkanes. *Biochimica et Biophysica Acta (BBA) - Biomembranes* 863: 45-52. Rejection Code: METHODS.

- 1310. Suzuki, Hitomi, Nakaya, Chie, and Matano, Yoshihiro (1993). Photochemical azido ligand transfer reaction of a triarylbismuth diazide with alkynes. *Tetrahedron Letters* 34: 1055-1056. Rejection Code: METHODS.
- 1311. Swan, S. H., Kruse, R. L., Liu, F., Barr, D. B., Drobnis, E. Z., Redmon, J. B., Wang, C., Brazil, C., and Overstreet, J. W. (2003). Semen Quality in Relation to Biomarkers of Pesticide Exposure.

  \*Environmental Health Perspectives [Environ. Health Perspect.]. Vol. 111, no. 12, pp. 1478-1484.

  \*Sep 2003.\*

  Rejection Code: HUMAN HEALTH.
- 1312. Swedburg, D. (1973). Diazinon Toxicity to Specified Fish. U.S.EPA-OPP Registration Standard.
  - ; Habitat: A; Effect Codes: MOR
- 1313. Szardenings, Anna Katrin, Gordeev, Mikhail F., and Patel, Dinesh V. (1996). A general and convenient synthesis of novel phosphotyrosine mimetics. *Tetrahedron Letters* 37: 3635-3638. Rejection Code: METHODS.
- 1314. SZAREK, J., FABCZAK, J., ZASADOWSKI, A., and SPODNIEWSKA, A. (1995).

  PATHOMORPHOLOGICAL PATTERNS OF THE LIVER AND KIDNEY IN RATS EXPOSED
  TO MIXED INTOXICATION WITH SELENIUM AND DIAZINON. XVTH EUROPEAN
  CONGRESS OF PATHOLOGY, COPENHAGEN, DENMARK, SEPTEMBER 3-8, 1995.
  PATHOLOGY RESEARCH AND PRACTICE; 191 790.
  Rejection Code: ABSTRACT.
- 1315. SZETO SY, BROWN MJ, MACKENZIE JR, and VERNON RS (1986). DEGRADATION OF TERBUFOS IN SOIL AND ITS TRANSLOCATION INTO COLE CROPS. *J AGRIC FOOD CHEM*; 34 876-879.

  Rejection Code: FATE.
- 1316. TAKAHASHI, H., FUTAGAWA, H., and TANAKA, N. (1996). CARDIOVASCULAR COLLAPSE AFTER INTRAVENOUS INJECTION OF ORGANOPHOSPHORUS INSECTICIDE DIAZINON IN RATS. 23RD ANNUAL MEETING OF THE JAPANESE SOCIETY OF TOXICOLOGICAL SCIENCES, FUKUOKA, JAPAN, JULY 24-26, 1996. JOURNAL OF TOXICOLOGICAL SCIENCES; 21 399.

  Rejection Code: ABSTRACT.
- 1317. Takahashi, H., Kojima, T., Ikeda, T., Tsuda, S., and Shirasu, Y. (1991). Differences in the Mode of Lethality Produced Through Intravenous and Oral Administration of Organophosphorus Insecticides in Rats. *Fundam.Appl.Toxicol*. 16: 459-468.
  - ; Habitat: T; Effect Codes: MOR, BEH
- 1318. TAKAHASHI, Y., ODANAKA, Y., WADA, Y., MINAKAWA, Y., and FUKITA, T. (1999). Pesticide runoff and mass balance in field model tests analyzed by commercially available immunoassay kits. *JOURNAL OF PESTICIDE SCIENCE*; 24 255-261.

  Rejection Code: FATE.
- 1319. Takeda, K. (1996). Inheritance of Sensitivity to the Insecticide Diazinon in Barley and the Geographical Distribution of Sensitive Varieties. *Euphytica* 89: 297-304.

- ; Habitat: T; Effect Codes: PHY,MOR
- 1320. Takeda, Tomoko, Nakamatsu, Yutaka, and Tanaka, Toshiharu ( Parasitization by Cotesia plutellae enhances detoxifying enzyme activity in Plutella xylostella. *Pesticide Biochemistry and Physiology* In Press, Corrected Proof.

  <u>Rejection Code</u>: NO SOURCE.
- 1321. Takeuchi, Ryo and Akiyama, Yasushi (2002). Iridium complex-catalyzed carbonylation of allylic phosphates. *Journal of Organometallic Chemistry* 651: 137-145. Rejection Code: METHODS.
- 1322. Talebi, K. (1998). Diazinon Residues in the Basins of Anzali Lagoon, Iran. *Bulletin of Environmental Contamination and Toxicology [Bull. Environ. Contam. Toxicol.]. Vol. 61, no. 4, pp. 477-483. Oct 1998.*Rejection Code: SURVEY.
- 1323. Tanaka, A., Masago, H., Karino, K., and Ujie, A. (1983). Determination of Trace Agrochemicals in Water and Toxicity of Agrochemicals to Fish. 2. Toxicity of Decomposition Products From Uv-Irradiated. *C.A.Sel.-Environ.Pollut.18:4 (1984) / Gunma-Ken Eisei Kogai Kenkyusho Nenpo* 15: 119-122.
  - ; Habitat: A; Effect Codes: MOR
- 1324. Tanigawa, Yoshio, Nishimura, Kazuaki, Kawasaki, Akihiko, and Murahashi, Shun-Ichi (1982).

  Palladium(O)-catalyzed allylic alkylation and amination of allylic phosphates. *Tetrahedron Letters* 23: 5549-5552.

  Rejection Code: METHODS.
- 1325. Tashiro, H. and Kuhr, R. J. (1978). Some Factors Influencing the Toxicity of Soil Applications of Chlorpyrifos and Diazinon to European Chafer Grubs. *J.Econ.Entomol.* 71: 904-907.
  - ; Habitat: T; Effect Codes: MOR, ACC
- 1326. TAYLOR AW and SPENCER WF (1990). VOLATILIZATION AND VAPOR TRANSPORT PROCESSES. CHENG, H. H. (ED.). SSSA (SOIL SCIENCE SOCIETY OF AMERICA) BOOK SERIES, NO. 2. PESTICIDES IN THE SOIL ENVIRONMENT: PROCESSES, IMPACTS, AND MODELING. XXIII+530P. SOIL SCIENCE SOCIETY OF AMERICA, INC.: MADISON, WISCONSIN, USA. ILLUS. ISBN 0-89118-791-X.; 0 (0). 1990. 213-270. Rejection Code: FATE.
- 1327. Taylor, R. N. (1982). Insecticide Resistance in Houseflies from the Middle East and North Africa with Notes on the Use of Various Bioassay Techniques. *Pestic.Sci.* 13: 415-425.
  - ; Habitat: T; Effect Codes: MOR
- 1328. Teh, S. J., Deng, D. F., Werner, I., Teh, F. C., and Hung, S. S. O. (2005). Sublethal Toxicity of Orchard Stormwater Runoff in Sacramento Splittail (Pogonichthys macrolepidotus) Larvae.

  \*\*Mar.Environ.Res.\*\* 59: 203-216.

  \*\*Rejection Code: EFFLUENT.\*\*
- 1329. Teixeira, H., Rosilio, V., Laigle, A., Lepault, J., Erk, I., Scherman, D., Benita, S., Couvreur, P., and Dubernet, C. (2001). Characterization of oligonucleotide/lipid interactions in submicron cationic emulsions: influence of the cationic lipid structure and the presence of PEG-lipids. *Biophysical Chemistry* 92: 169-181.

  Rejection Code: METHODS.

- 1330. Terada, Megumi, Mizuhashi, Fukutaro, Murata, Kyoji, and Tomita, Takako (1999). Mepanipyrim, a New Fungicide, Inhibits Intracellular Transport of Very Low Density Lipoprotein in Rat Hepatocytes. *Toxicology and Applied Pharmacology* 154: 1-11.

  <u>Rejection Code</u>: MIXTURE, IN VITRO.
- 1331. Thelin, G. P. (1997). National Assessment of Pesticides in the Streams, Rivers, and Ground Water of the United States. *U.S.G.S.National Water Quality Assessment Pesticide National Synthesis Project* 7.

  Rejection Code: NO SPECIES/NO TOX DATA.
- 1332. Thomas, B. V. (1998). Organophosphate Insecticides: Metabolism, Excretion, Forensic and Mechanistic Investigations in Fish.
  <u>Rejection Code</u>: NO COC.
- 1333. Thompson, A. R. (1973). Persistence of Biological Activity of Seven Insecticides in Soil Assayed with Folsomia Candida. *J.Econ.Enthomol.* 66: 855-857 (OECDG Data File).
  - ; Habitat: T; Effect Codes: MOR
- 1334. Thompson, A. R. and Gore, F. L. (1972). Toxicity of Twenty-Nine Insecticides to Folsomia candida: Laboratory Studies. *J.Econ.Entomol.* 65: 1255-1260.
  - ; Habitat: T; Effect Codes: MOR
- 1335. Thompson, C. R., Kats, G., Dawson, P., and Doyle, D. (1981). Development of a Protocol for Testing Effects of Toxic Substances on Plants. *EPA-600/3-81-006*, *U.S.EPA*, *Corvallis*, *OR* 37 p. (U.S.NTIS PB81-157901).
- 1336. THOMPSON HM, LANGTON SD, and HART, A. DM (1995). Prediction of inter-species differences in the toxicity of organophosphorus pesticides to wildlife: A biochemical approach.

  \*\*COMPARATIVE BIOCHEMISTRY AND PHYSIOLOGY C PHARMACOLOGY TOXICOLOGY & ENDOCRINOLOGY; 111 1-12.

  \*\*Rejection Code: IN VITRO.\*\*
- 1337. Thompson, Nancy L., Brian, Adrienne A., and McConnell, Harden M. (1984). Covalent linkage of a synthetic peptide to a fluorescent phospholipid and its incorporation into supported phospholipid monolayers. *Biochimica et Biophysica Acta (BBA) Biomembranes* 772: 10-19.

  <u>Rejection Code</u>: METHODS.
- 1338. Timchalk, C., Poet, T. S., Hinman, M. N., Busby, A. L., and Kousba, A. A. (2005). Pharmacokinetic and Pharmacodynamic Interaction for a Binary Mixture of Chlorpyrifos and Diazinon in the Rat. *Toxicol.Appl.Pharmacol.* 205: 31-42.
  - ; Habitat: T; Effect Codes: BCM,CEL
- 1339. Tocanne, Jean-Francois, Cezanne, Laurence, Lopez, Andre, Piknova, Barbora, Schram, Vincent, Tournier, Jean-Francois, and Welby, M. (1994). Lipid domains and lipid/protein interactions in biological membranes. *Chemistry and Physics of Lipids* 73: 139-158.

  Rejection Code: METHODS.
- 1340. Tocanne, Jean-Francois, Dupou-Cezanne, Laurence, Lopez, Andre, and Tournier, Jean-Francois (1989). Lipid lateral diffusion and membrane organization. FEBS Letters 257: 10-16. Rejection Code: METHODS.

- 1341. Tomokuni, K. and Hasegawa, T. (1985). Diazinon Concentrations and Blood Cholinesterase Activities in Rats Exposed to Diazinon. *Toxicol.Lett.* 25: 7-10.
  - ; Habitat: T; Effect Codes: ACC,BCM
- 1342. Tomokuni, K., Hasegawa, T., Hirai, Y., and Koga, N. (1985). The Tissue Distribution of Diazinon and the Inhibition of Blood Cholinesterase Activities in Rats and Mice Receiving a Single Intraperitoneal Dose of Diazinon. *Toxicology* 37: 91-98.
  - ; Habitat: T; Effect Codes: BCM,ACC
- 1343. Tonkopii, V. D. and Zagrebin, A. O. (1999). Daphnia magna Cytochrome P-450 Related Enzymes as Biomarker of Organophosphates Exposure. *Toxicol.Lett.* Suppl.1: 64-65 (ABS No.P168). Rejection Code: IN VITRO.
- 1344. Toor, H. S. and Kaur, K. (1974). Toxicity of Pesticides to the Fish, Cyprinus carpio communis Linn. *Indian J.Exp.Biol.* 12: 334-336 (Used 6722 As Reference).
  - ; Habitat: A; Effect Codes: MOR
- 1345. Torchilin, Vladimir P., Omelyanenko, Vladimir G., Papisov, Mikhail I., Bogdanov, Jr. Alexei A., Trubetskoy, Vladimir S., Herron, James N., and Gentry, Christine A. (1994). Poly(ethylene glycol) on the liposome surface: on the mechanism of polymer-coated liposome longevity. *Biochimica et Biophysica Acta (BBA) Biomembranes* 1195: 11-20. Rejection Code: METHODS.
- 1346. Torii, Sigeru, Okumoto, Hiroshi, Sadakane, Masahiro, Hai, A. K. M. Abdul, and Tanaka, Hideo (1993).

  Carbonylative [2+2] cycloaddition for the construction of [beta]-lactam skeleton with palladium catalyst. *Tetrahedron Letters* 34: 6553-6556.

  Rejection Code: METHODS.
- 1347. TORRES CM, PICO, Y., MARIN, R., and MANES, J. (1997). Evaluation of organophosphorus pesticide residues in citrus fruits from the Valencian Community (Spain). *JOURNAL OF AOAC INTERNATIONAL; 80* 1122-1128.

  Rejection Code: FATE.
- 1348. Tory, Monica C. and Rod Merrill, A. (2002). Determination of membrane protein topology by red-edge excitation shift analysis: application to the membrane-bound colicin E1 channel peptide . *Biochimica et Biophysica Acta (BBA) Biomembranes* 1564: 435-448. Rejection Code: METHODS.
- 1349. Trappe, J. M., Molina, R., and Castellano, M. (1984). Reactions of Mycorrhizal Fungi and Mycorrhizae Formation to Pesticides. *Ann.Rev.Phytopathol.* 22: 331-359.

  Rejection Code: REVIEW.
- 1350. Treistman, Steven N., Moynihan, Margaret M., and Wolf, David E. (1987). Influence of alcohols, temperature, and region on the mobility of lipids in neuronal membrane. *Biochimica et Biophysica Acta (BBA) Biomembranes* 898: 109-120.

  <u>Rejection Code</u>: METHODS.
- 1351. Trevisan, M., Montepiani, C., Ragozza, L., Bartoletti, C., Ioannilli, E., and Del Re, A. A. M. (1993).

  Pesticides in rainfall and air in Italy. *Environmental Pollution* 80: 31-39.

  Rejection Code: SURVEY.
- 1352. Tronsmo, A. (1989). Effect of Fungicides and Insecticides on Growth of Botrytis cinerea, Trichoderma

viride and T. harzianum. Norw.J.Agric.Sci. 3: 151-156.

- ; Habitat: T; Effect Codes: POP
- 1353. Tsezos, M. and Bell, J. P. (1989). Comparison of the biosorption and desorption of hazardous organic pollutants by live and dead biomass. *Water Research* 23: 561-568.

  <u>Rejection Code</u>: FATE.
- 1354. Tsuda, T., Aoki, S., Inoue, T., and Kojima, M. (1995). Accumulation of diazinon, fenthion and fenitrothion by killfish from mixtures of the three pesticides. *Toxicological and Environmental Chemistry [TOXICOL. ENVIRON. CHEM.]. Vol. 47, no. 3-4, pp. 251-255. 1995.*Rejection Code: MIXTURE, METABOLISM.
- 1355. Tsuda, T., Aoki, S., Inoue, T., and Kojima, M. (1995). Accumulation of Diazinon, Fenthion and Fenitrothion by Killifish from Mixtures of the Three Pesticides. *Toxicol.Environ.Chem.* 47: 251-255.

  Rejection Code: MIXTURE.
- 1356. Tsuda, T., Aoki, S., Kojima, M., and Fujita, T. (1992). Pesticides in Water and Fish from Rivers Flowing into Lake Biwa (II). *Chemosphere* 24: 1523-1531. Rejection Code: NO DURATION/SURVEY.
- 1357. Tsuda, T., Aoki, S., Kojima, M., and Fujita, T. (1992). Pesticides in water and fish from rivers flowing into Lake Biwa (II). *Chemosphere* 24: 1523-1531. Rejection Code: SURVEY, MIXTURE.
- 1358. Tsuda, T., Aoki, S., Kojima, M., and Harada, H. (1991). Pesticides in water and fish from rivers flowing into Lake Biwa. *Toxicological and Environmental Chemistry [TOXICOL. ENVIRON. CHEM.]. Vol. 34, no. 1, pp. 39-55. 1991.* Rejection Code: SURVEY.
- 1359. Tsuda, T., Inoue, T., Kojima, M., and Aoki, S. (1996). Pesticides in water and fish from rivers flowing into Lake Biwa. *Bulletin of Environmental Contamination and Toxicology. Vol. 57, no. 3, pp. 442-449. Sep 1996.*Rejection Code: SURVEY.
- 1360. Tsuda, T., Inoue, T., Kojima, M., and Aoki, S. (1996). Pesticides in Water and Fish from Rivers Flowing into Lake Biwa. *Bull.Environ.Contam.Toxicol.* 57: 442-449. Rejection Code: NO DURATION/SURVEY.
- 1361. Tsuda, T., Kojima, M., Harada, H., Nakajima, A., and Aoki, S. (1997). Relationships of Bioconcentration Factors of Organophosphate Pesticides Among Species of Fish. *Comp.Biochem.Physiol.C* 116: 213-218.
  - ; Habitat: A; Effect Codes: ACC
- 1362. TSUDA, T., KOJIMA, M., HARADA, H., NAKAJIMA, A., and AOKI, S. (1997). Relationships of bioconcentration factors of organophosphate pesticides among species of fish. *COMPARATIVE BIOCHEMISTRY AND PHYSIOLOGY C PHARMACOLOGY TOXICOLOGY & ENDOCRINOLOGY*; 116 213-218.

  Rejection Code: MODELING.
- 1363. Tsuji, S., Tonogai, Y., Ito, Y., and Kanoh, S. (1986). The Influence of Rearing Temperatures on the Toxicity of Various Environmental Pollutants for Killifish (Oryzias latipes). *J.Hyg.Chem.(Eisei Kagaku)* 32: 46-53 (JPN) (ENG ABS).

- ; Habitat: A; Effect Codes: MOR
- 1364. Tsutsumi, Toshihiko, Tokumura, Akira, and Kitazawa, Shikifumi (1998). Undifferentiated HL-60 cells internalize an antitumor alkyl ether phospholipid more rapidly than resistant K562 cells. *Biochimica et Biophysica Acta (BBA) Lipids and Lipid Metabolism* 1390: 73-84. Rejection Code: METHODS.
- 1365. Tu, C. M. (1991). Effect of Some Technical and Formulated Insecticides on Microbial Activities in Soil. *J.Environ.Sci.Health Part B* 26: 557-573.
  - ; Habitat: T; Effect Codes: POP
- 1366. TU JC and ZHENG, J. (1993). COMPATIBILITY OF BIOCONTROL AGENTS WITH DCT.

  MEDEDELINGEN FACULTEIT LANDBOUWKUNDIGE EN TOEGEPASTE BIOLOGISCHE
  WETENSCHAPPEN UNIVERSITEIT GENT; 58 1359-1364.

  Rejection Code: MIXTURE.
- 1367. TU JC and ZHENG, J. (1993). EFFECTS ON SOIL MOISTURE ON DCT EFFICACY AGAINST WHITE BEAN ROOT ROT COMPLEX. *MEDEDELINGEN FACULTEIT LANDBOUWKUNDIGE EN TOEGEPASTE BIOLOGISCHE WETENSCHAPPEN UNIVERSITEIT GENT*; 58 1469-1475.

  Rejection Code: NON-ENGLISH.
- 1368. Tutudaki, M., Tsakalof, A. K., and Tsatsakis, A. M. (2003). Hair analysis used to assess chronic exposure to the organophosphate diazinon: a model study with rabbits. *Human & Experimental Toxicology [Hum. Exp. Toxicol.]. Vol. 22, no. 3, pp. 159-164. Mar 2003.*Rejection Code: METABOLISM.
- 1369. Tutudaki, Maria, Tsakalof, Andreas, and Tsatsakis, Aristidis M. (2003). Hair analysis: Evaluation of a simple method to assess chronic exposure of rats to the organophosphate diazinon. *Toxicology Letters* 144: s160-s161.
  Rejection Code: ABSTRACT, METHODS.
- 1370. U.S.Environmental Protection Agency (1985). Appendix B Response to Public Comments on "Guidelines for Deriving Numerical National Water Quality Criteria for the Protection of Aquatic Organisms and Their Uses". *Fed.Regist.* 50: 30793-30796.

  Rejection Code: NO TOX DATA.
- 1371. U.S.Environmental Protection Agency (2005). Aquatic Life Ambient Water Quality Criteria: Diazinon. *EPA-822-R-05-006, Final Rep., U.S.EPA, Washington, D.C.* 78 p. <u>Rejection Code</u>: REFS CHECKED/REVIEW.
- 1372. U.S.Environmental Protection Agency (1987). Permit Writer's Guide to Water Quality-Based Permitting for Toxic Pollutants. *EPA-440/4-87-005, National Technical Information Service, Springfield, VA*.

  Rejection Code: NO TOX DATA.
- 1373. U.S.Environmental Protection Agency (1986). Stream Design Flow for Steady-State Modeling. *In: Book VI-Design Conditions, In: Chapter 1, Technical Guidance Manual for Performing Waste Load Allocation, Office of Water, Washington, DC.*Rejection Code: METHODS/MODELING/NO TOX DATA.
- 1374. U.S.Environmental Protection Agency (1991). Technical Support Document for Water Quality-Based Toxics Control. *EPA-505/2-90-001, U.S.EPA, Washington, D.C.* 292 p. (U.S.NTIS PB91-

127415).

Rejection Code: REFS CHECKED/REVIEW.

1375. U.S.Environmental Protection Agency (1994). Water Quality Standards Handbook 2nd Edition. *EPA-823-B94-005b*.

Rejection Code: NO TOX DATA.

1376. U.S.Environmental Protection Agency (1983). Water Quality Standards Regulation. *Fed.Regist.* 48: 51400-51413.

Rejection Code: REVIEW.

- 1377. Ueda, Kenzo, Gaughan, Loretta C., and Casida, John E. (1975). Metabolism of four resmethrin isomers by liver microsomes. *Pesticide Biochemistry and Physiology* 5: 280-294. Rejection Code: IN VITRO.
- 1378. Uno, S., Shiraishi, H., Hatakeyama, S., and Otsuki, A. (1997). Uptake and Depuration Kinetics and BCFs of Several Pesticides in Three Species of Shellfish (Corbicula leana, Corbicula japonica, and Cipangopludina. *Aquat.Toxicol.* 39: 23-43.

; Habitat: A; Effect Codes: ACC

1379. Uno, S., Shiraishi, H., Hatakeyama, S., Otsuki, A., and Koyama, J. (2001). Accumulative Characteristics of Pesticide Residues in Organs of Bivalves (Anodonta woodiana and Corbicula leana) Under Natural Conditions. *Arch.Environ.Contam.Toxicol.* 40: 35-47.

; Habitat: A; Effect Codes: ACC

1380. Uno, S., Shiraishi, H., Hatakeyama, S., Otsuki, A., and Koyama, J. (2001). Accumulative Characteristics of Pesticide Residues in Organs of Bivalves (Anodonta woodiana and Corbicula leana) Under Natural Conditions. *Arch.Environ.Contam.Toxicol.* 40: 35-47.

; Habitat: A; Effect Codes: ACC

1381. Unsal, M. (1995). Usage of Pesticides and PCBs in Cukurova Region, Turkey and Their Impact on the Environment. *Turk.J.Zool.* 19: 199-205.

Rejection Code: REFS CHECKED/REVIEW/SURVEY.

1382. Vaid, S. and Mishra, I. M. (1997). Simultaneous Determination of Three Organophosphorus Pesticides by Reversed-Phase High Performance Liquid Chromatography in Fish Brain Homogenates. *Environ.Ecol.* 15: 717-719.

; Habitat: A; Effect Codes: ACC

1383. Vaissayre, M. (1986). Chemical Control of the Mite Polyphagotarsonemus latus (Banks) in Cotton Fields. *Coton Fibres Trop.* 41: 38-43.

; Habitat: T

- 1384. Vaissayre, M. (1986). Lutte Chimique Contre l'Acarien Polyphagotarsonemus latus (Banks) en Culture Cotonniere. *Coton Fibres Trop.* 41: 31-38 (FRE).

  Rejection Code: PUBL AS.
- 1385. Van de Vrie, M. (1967). The Effect of Some Pesticides on the Predatory Bugs Anthocoris nemorum L. and Orius spec. and on the Woolly Aphid Parasite Aphelinus mali Hald. *Entomophaga Mem.Hors Ser.* 3: 95-101.

- ; Habitat: T
- 1386. Van Der Geest, H. G., Greve, G. D., Boivin, M. E., Kraak, M. H. S., and Van Gestel, C. A. M. (2000).

  Mixture toxicity of copper and diazinon to larvae of the mayfly (Ephoron virgo) judging additivity at different effect levels. *Environmental toxicology and chemistry [environ. Toxicol. Chem.]. Vol.* 19, no. 12, pp. 2900-2905. Dec 2000.

  Rejection Code: CHEM METHODS/MIXTURE.
- 1387. Van Der Geest, H. G., Stuijfzand, S. C., Kraak, M. H. S., and Admiraal, W. (1997). Impact of a diazinon calamity in 1996 on the aquatic macroinvertebrates in the River Meuse, The Netherlands.

  \*Netherlands Journal of Aquatic Ecology [NETH. J. AQUAT. ECOL.]. Vol. 30, no. 4, pp. 327-330.

  \*May 1997.\*

  \*Rejection Code: INCIDENT.
- 1388. Van der Geest, H. G., Stuijfzand, S. C., Kraak, M. H. S., and Admiraal, W. (1997). Impact of a Diazinon Calamity in 1996 on the Aquatic Macroinvertebrates in the River Meuse, The Netherlands.

  \*Neth.J.Aquat.Ecol.\*\* 30: 327-330.

  \*Rejection Code: SURVEY.
- 1389. Van Erp, S., Booth, L., Gooneratne, R., and O'Halloran, K. (2002). Sublethal Responses of Wolf spiders (Lycosidae) to Organophosphorous Insecticides. *Environ.Toxicol.* 17: 449-456.
  - ; Habitat: T; Effect Codes: BCM,MOR
- 1390. VAN METRE PC and CALLENDER, E. (1996). Identifying water-quality trends in the Trinity River, Texas, USA, 1969-1992, using sediment cores from Lake Livingston. *ENVIRONMENTAL GEOLOGY*; 28 190-200.

  Rejection Code: SURVEY.
- 1391. Vanninen, I. and Hokkanen, H. (1988). Effect of Pesticides on Four Species of Entomopathogenic Fungi In Vitro. *Ann. Agric. Fenn.* 27: 345-53.
  - ; Habitat: T; Effect Codes: POP
- 1392. Vanninen, I., Hokkanen, H., and Tyni-Juslin, J. (1999). Screening of field performance of entomopathogenic fungi and nematodes against cabbage root flies (Delia radicum L. and D. floralis (Fall.); Diptera, Anthomyiidae. *Acta Agriculturae Scandinavica Section B Soil and Plant Science*, 49 (3) pp. 167-183, 1999.

  Rejection Code: BIOLOGICAL TOXICANT.
- 1393. Vasilevsky, Sergei F., Mshvidobadze, Elena V., Mamatyuk, Victor I., Romanenko, Galina V., and Elguero, Jose (2005). Unexpected results in the heterocyclization of 5-acetylenylpyrazole-4-carboxylic acid hydrazides under the influence of CuCl: formation of a diazepinone and dehydrodimerization into the corresponding bis(pyrazolo[4,3-d][1,2]diazepinone). *Tetrahedron Letters* 46: 4457-4459. Rejection Code: METHODS.
- 1394. Vaz, I. A. Jr, Lermen, T. T., Michelon, A., Ferreira, C. A. S., De Freitas, D. R. J., Termignoni, C., and Masuda, A. (2004). Effect of acaricides on the activity of a Boophilus microplus glutathione Stransferase. *Veterinary Parasitology [Vet. Parasitol.]. Vol. 119, no. 2-3, pp. 237-245. Jan 2004.* Rejection Code: BACTERIA.
- 1395. VENKATESWARLU, K. (1993). PESTICIDE INTERACTIONS WITH CYANOBACTERIA IN SOIL AND PURE CULTURE. BOLLAG, J.-M. AND G. STOTZKY (ED.). SOIL BIOCHEMISTRY, VOL. 8. XI+418P. MARCEL DEKKER, INC.: NEW YORK, NEW YORK, USA; BASEL,

1396. Verma, A. N., Sandhu, G. S., and Saramma, P. U. (1967). Relative Efficacy of Different Insecticides as Contact Poisons to the Adults of Singhara-d Beetle Galerucella-birmanica Coleoptera Chrysomellidae trapa-bispinosa-d Mevinphos Carbaryl Bidrin Nicotine Sulfate Parathion Diazinon Phosphamidon DDT Malathion te. *J.Res.Punjab Agric.Univ.* 4: 415-419.

; Habitat: T

- 1397. Verma, S. R., Bansal, S. K., Gupta, A. K., Pal, N., Tyagi, A. K., Bhatnagar, M. C., Kumar, V., and Dalela, R. C. (1982). Bioassay Trials with Twenty Three Pesticides to a Fresh Water Teleost, Saccobranchus fossilis. *Water Res.* 16: 525-529.
- 1398. Verrin, S. M., Begg, S. J., Ross, P. S., and Department of Fisheries and Oceans Canada, Sidney, BC (Canada) Inst. Ocean. Sci. (2004). Pesticide use in British Columbia and the Yukon: an assessment of types, applications and risks to aquatic biota.

  Rejection Code: NO TOX DATA.
- 1399. Verschueren, K. (1983). Handbook of Environmental Data on Organic Chemical. *Handbook of Environmental Data on Organic Chemical, 2nd Edition, Van Nostrand Reinhold Co., New York, NY*.

  Rejection Code: NO TOX DATA.
- 1400. VERSTEEG DJ, STALMANS, M., DYER SD, and JANSSEN, C. (1997). Ceriodaphnia and Daphnia: A comparison of their sensitivity to xenobiotics and utility as a test species. *CHEMOSPHERE*; *34* 869-892.

  Rejection Code: REVIEW.
- 1401. Verstraeten, Sandra V., Nogueira, Luciana V., Schreier, Shirley, and Oteiza, Patricia I. (1997). Effect of Trivalent Metal Ions on Phase Separation and Membrane Lipid Packing: Role in Lipid Peroxidation. Archives of Biochemistry and Biophysics 338: 121-127. Rejection Code: METHODS.
- 1402. Vighi, M. and Calamari, D. (1987). A Triparametric Equation to Describe QSARs for Heterogeneous Chemical Substances. *Chemosphere* 16: 1043-1051.

  Rejection Code: QSAR/REVIEW.
- 1403. VILANOVA, E. and SOGORB MA (1999). The role of phosphotriesterases in the detoxication of organophosphorus compounds. CRITICAL REVIEWS IN TOXICOLOGY; 29 21-57. Rejection Code: METABOLISM, REVIEW.
- 1404. Vilkas, A. (1976). Acute Toxicity of Diazinon Technical to the Water Flea, Daphnia magna Straus. *U.S.EPA-OPP Registration Standard*.

; Habitat: A; Effect Codes: MOR

- 1405. Villarosa, L., McCormick, M. J., Carpenter, P. D., and Marriott, P. J. (1994). Determination of Trace Levels of Diazinon and Propetamphos in Water and Sewage by Solid Phase Extraction. *Int.J.Environ.Anal.Chem.* 54: 93-103. Rejection Code: NO SPECIES/NO TOX DATA.
- 1406. Vincens, M., Gong-Cheng, F., Toulhoat, C., Grimaldo-Moron, J. T., and Vidal, M. (1988). Synthese de nouveaux oxydes de tetraphosphines macrocycliques. *Tetrahedron Letters* 29: 6247-6248.

- Rejection Code: METHODS.
- 1407. Virtue, W. A. and Clayton, J. W. (1997). Sheep Dip Chemicals and Water Pollution. *Sci.Total Environ*. 194/195: 207-217.

  <u>Rejection Code</u>: SURVEY.
- 1408. VIRTUE WA and CLAYTON JW (1997). Sheep dip chemicals and water pollution. *SCIENCE OF THE TOTAL ENVIRONMENT*; 194-195 207-217.

  Rejection Code: NO TOX DATA.
- 1409. Vittozzi, L. and De Angelis, G. (1991). A Critical Review of Comparative Acute Toxicity Data on Freshwater Fish. *Aquat.Toxicol*. 19: 167-204. Rejection Code: REFS CHECKED/REVIEW.
- 1410. Vlyssides, Apostolos, Arapoglou, Dimitris, Mai, Sofia, and Barampouti, Elli Maria (2005). Electrochemical detoxification of four phosphorothioate obsolete pesticides stocks. *Chemosphere* 58: 439-447. Rejection Code: METHODS.
- 1411. Vos, Jan P., Giudici, M. Luisa, van der Bijl, Petra, and Lopes-Cardozo, Matthijs (1996). Synthesis of sphingomyelin by oligodendrocytes--how and where?: Lipid Messengers in the Nervous System. *Journal of Lipid Mediators and Cell Signalling* 14: 313-319.

  Rejection Code: IN VITRO.
- 1412. Vyas, N. B., Spann, J. W., Hulse, C. S., Torrez, M., Williams, B. I., and Leffel, R. (2004). Decomposed Gosling Feet Provide Evidence of Insecticide Exposure. *Environmental Monitoring and Assessment [Environ. Monit. Assess.]. Vol. 98, no. 1-3, pp. 351-361. Nov 2004.*Rejection Code: NO SPECIES.
- 1413. WADE HF, YORK AC, MOREY AE, PADMORE JM, and RUDO KM (1998). The impact of pesticide use on groundwater in North Carolina. *JOURNAL OF ENVIRONMENTAL QUALITY*; 27 1018-1026.
  Rejection Code: SURVEY.
- 1414. Wadhi, S. R. (1961). Tolerance of Peach Saplings to Insecticidal Applications. *Ind.J.Entomol.* 23: 137-148.
  - ; Habitat: T; Effect Codes: PHY
- 1415. Walker, C. H. (1983). Pesticides and birds -- mechanisms of selective toxicity. *Agriculture, Ecosystems & Environment* 9: 211-226.

  Rejection Code: NO TOX DATA.
- 1416. WALL GR and PHILLIPS PJ (1998). Pesticides in the Hudson River Basin, 1994-96. NORTHEASTERN GEOLOGY AND ENVIRONMENTAL SCIENCES; 20 299-307.

  Rejection Code: FATE.
- 1417. Wall, W. J. J. and Marganian, V. M. (1971). Control of Culicoides melleus (Coq.) (Diptera: Ceratopogonidae) with Granular Organophosphorus Pesticides, and the Direct Effect on Other Fauna. *Mosq.News* 31: 209-214.
  - ; Habitat: A; Effect Codes: POP
- 1418. Wall, W. J. Jr. and Marganian, V. M. (1973). Control of Salt Marsh Culicoides and Tabanus Larvae in Small Plots with Granular Organophosphorus Pesticides, and the Direct Effect on Other Fauna. *Mosq.News* 33: 88-93.

- ; Habitat: A; Effect Codes: POP
- 1419. Waller, W. T., Acevedo, M. F., Morgan, E. L., Dickson, K. L., Kennedy, J. H., Ammann, L. P., Allen, H. J., and Keating, P. R. (1995). Biological and Chemical Testing in Storm Water. Proc. of Storm Water DPDES Related Monitoring Needs, Eng. Found. Conf., Crested Butte, CO, Am. Soc. of Civil Eng., NY 676 p.
  Rejection Code: EFFLUENT.
- 1420. Walter, Anne, Suchy, Susan E., and Vinson, Phillip K. (1990). Solubility properties of the alkylmethylglucamide surfactants. *Biochimica et Biophysica Acta (BBA) Biomembranes* 1029: 67-74.

  <u>Rejection Code</u>: METHODS.
- 1421. WAN MT, SZETO, S., and PRICE, P. (1994). Organophosphorus insecticide residues in farm ditches of the Lower Fraser Valley of British Columbia. JOURNAL OF ENVIRONMENTAL SCIENCE AND HEALTH PART B PESTICIDES FOOD CONTAMINANTS AND AGRICULTURAL WASTES; 29 917-949.
  Rejection Code: FATE.
- 1422. WANG C-K and LEE S-E (1997). Evaluation of granular activated carbon adsorber design criteria for removal of organics based on pilot and small-scale studies. WATER SCIENCE AND TECHNOLOGY; 35 227-234. Rejection Code: METHODS.
- 1423. Wang, Qiquan and Lemley, Ann T. (2002). Oxidation of diazinon by anodic Fenton treatment. *Water Research* 36: 3237-3244.

  <u>Rejection Code</u>: METHODS.
- 1424. Wang, Zhong-Xia, Chai, Zuo-Yun, and Li, Ye-Xin (2005). Reaction of aryl azides with tris(trimethylsilyl)silyllithium: Synthesis of tmeda or thf adducts of [Li{N(Ar)Si(SiMe3)3}] and 1,4-trimethylsilyl migration from oxygen to nitrogen. *Journal of Organometallic Chemistry* 690: 4252-4257.

  Rejection Code: METHODS.
- 1425. WARD MP and ARMSTRONG, R. TF (1998). Pesticide use and residues on Queensland wool. *AUSTRALIAN VETERINARY JOURNAL*; 76 739-742.

  Rejection Code: FATE.
- 1426. Ward, R. J., Palmer, M., Leonard, K., and Bhakdi, S. \*. (1994). Identification of a putative membrane-inserted segment in the alpha -toxin of Staphylococcus aureus. *Biochemistry (Washington)* [BIOCHEMISTRY (WASH.)]. Vol. 33, no. 23, pp. 7477-7484. 1994. Rejection Code: METHODS.
- 1427. Wardlow, L. R., Ludlam, F. A. B., and Hammon, R. P. (1975). A Comparison of the Effectiveness of Insecticides Against Glasshouse Whitefly (Trialeurodes vaporariorum). *Ann. Appl. Biol.* 81: 433-435.
  - ; Habitat: T; Effect Codes: MOR
- 1428. Wasan, Ellen K., Harvie, Pierrot, Edwards, Katarina, Karlsson, Goran, and Bally, Marcel B. (1999). A multi-step lipid mixing assay to model structural changes in cationic lipoplexes used for in vitro transfection. *Biochimica et Biophysica Acta (BBA) Biomembranes* 1461: 27-46. Rejection Code: METHODS.

- 1429. WATANABE, H. (1992). SUPERHOMAI. *JPN PESTIC INF; 0* 10-11. Rejection Code: NO TOX DATA.
- 1430. Watanabe, H. and Grismer, M. E. (2001). Diazinon transport through inter-row vegetative filter strips: micro-ecosystem modeling. *Journal of Hydrology* 247: 183-199.

  Rejection Code: FATE.
- 1431. Watanabe, Hirozumi and Grismer, Mark E. (2003). Numerical modeling of diazinon transport through inter-row vegetative filter strips. *Journal of Environmental Management* 69: 157-168. Rejection Code: FATE.
- 1432. WATANABE, T. (1998). DETERMINATION OF THE CONCENTRATION OF PESTICIDES IN ATMOSPHERE AT HIGH ALTITUDES AFTER AERIAL APPLICATION. *BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY; 60* 669-676.

  Rejection Code: SURVEY.
- 1433. WATSON JE (1996). PESTICIDES AS A SOURCE OF POLLUTION. PEPPER, I. L., C. P. GERBA AND M. L. BRUSSEAU (ED.). POLLUTION SCIENCE. XXIV+397P. ACADEMIC PRESS, INC.: SAN DIEGO, CALIFORNIA, USA; LONDON, ENGLAND, UK. ISBN 0-12-550660-0.; 0 (0). 1996. 253-266.

  Rejection Code: FATE.
- 1434. Watterson, Andrew E. (1999). Regulating pesticides in the UK: a case study of risk management problems relating to the organophosphate diazinon. *Toxicology Letters* 107: 241-248. Rejection Code: NO TOX DATA.
- 1435. Wauchope, R. D. (1978). The Pesticide Content of Surface Water Draining from Agricultural Fields A Review. *J.Environ.Qual.* 7: 459-472.
  <u>Rejection Code</u>: NO SPECIES/REVIEW.
- 1436. Wegner, S. J. and Campbell, L. J. (1991). Radionuclides, chemical constituents, and organic compounds in water from designated wells and springs from the southern boundary of the Idaho National Engineering Laboratory to the Hagerman area, Idaho, 1989.

  Rejection Code: SURVEY.
- 1437. Weisburger, E. K. (1982). Carcinogenicity Tests on Pesticides. *In: J.E.Chambers and J.D.Yarbrough* (Eds.), Effects of Chronic Exposures to Pesticides on Animals Systems, Raven Press, NY 165-176.
  - ; Habitat: T; Effect Codes: PHY
- 1438. Weiss, C. M. (1959). Response of Fish to Sub-lethal Exposures of Organic Phosphorus Insecticides. Sewage Ind. Wastes 31: 580-593.
  - ; Habitat: A; Effect Codes: BCM
- 1439. Weiss, C. M. (1959). Stream Pollution: Response of Fish to Sub-lethal Exposures of Organic Phosphorus Insecticides. *Sewage Ind.Wastes* 31: 580-593.
  - ; Habitat: A; Effect Codes: PHY,GRO
- 1440. Weiss, C. M. and Gakstatter, J. H. (1965). The Decay of Anticholinesterase Activity of Organic Phosphorus Insecticides on Storage in Water of Different pH. *In: Proc.2nd Int.Water Pollut.Res.Conf.*, August 1964, Tokyo Adv.Water Pollut.Res. 1: 83-102.

  Rejection Code: IN VITRO.

- 1441. Weiss, C. M. and Gakstatter, J. H. (1964). Detection of Pesticides in Water by Biochemical Assay. *J.Water Pollut.Control Fed.* 36: 240-253.
  - ; Habitat: A; Effect Codes: PHY
- 1442. Weller, C. P. and Sulman, F. G. (1970). Drug action on tail shock-induced vocalization in mice and its relevance to analgesia. *European Journal of Pharmacology* 9: 227-234. Rejection Code: NO COC.
- 1443. Werner, I., Deanovic, L. A., Connor, V., De Vlaming, V., Bailey, H. C., and Hinton, D. E. (2000).

  Insecticide-caused toxicity to Ceriodaphnia dubia (Cladocera) in the Sacramento-San Joaquin River Delta, California, USA. *Environmental Toxicology and Chemistry [Environ. Toxicol. Chem.]. Vol. 19, no. 1, pp. 215-227. Jan 2000.*Rejection Code: SURVEY.
- 1444. Werner, I., Deanovic, L. A., Connor, V., De Vlaming, V., Bailey, J. C., and Hinton, D. E. (2000).

  Insecticide-Caused Toxicity to Ceriodaphnia dubia (Cladocera) in the Sacramento-San Joaquin River Delta, California. *Environ.Toxicol.Chem.* 19: 215-227.

  Rejection Code: MIXTURE.
- 1445. Werner, I., Deanovic, L. A., Hinton, D. E., Henderson, J. D., De Oliveira, G. H., Wilson, B. W., Krueger, W., Wallender, W. W., Oliver, M. N., and Zalom, F. G. (Toxicity of Stormwater Runoff After Dormant Spray Application of Diazinon and Esfenvalerate (Asana registered) in a French Prune Orchard, Glenn County, California, USA. Bulletin of Environmental Contamination and Toxicology [Bull. Environ. Contam. Toxicol.]. Vol. 68, no. 1, pp. 29-36. Jan 2002. Rejection Code: FATE.
- 1446. Werner, I., Deanovic, L. A., Hinton, D. E., Henderson, J. D., De Oliveira, G. H., Wilson, B. W., Krueger, W., Wallender, W. W., Oliver, M. N., and Zalom, F. G. (2002). Toxicity of Stormwater Runoff After Dormant Spray Application of Diazinon and Esfenvalerate (Asana registered) in a French Prune Orchard, Glenn County, California, USA. Bulletin of Environmental Contamination and Toxicology [Bull. Environ. Contam. Toxicol.]. Vol. 68, no. 1, pp. 29-36. Jan 2002. Rejection Code: EFFLUENT.
- 1447. Werner, I, Deanovic, L A, Hinton, D E, Henderson, J D, de Oliveira, G H, Wilson, B W, Krueger, W, Wallender, W W, Oliver, M N, and Zalom et, al. (2002). Toxicity of stormwater runoff after dormant spray application of diazinon and esfenvalerate (Asana) in a French prune orchard, Glenn county, California, USA. *Bulletin Of Environmental Contamination And Toxicology* 68: 29-36. Rejection Code: FATE.
- 1448. Werner, I., Zalom, F. G., Oliver, M. N., Deanovic, L. A., Kimball, T. S., Henderson, J. D., Wilson, B. W., Krueger, W., and Wallender, W. W. (2004). Toxicity of storm-water runoff after dormant spray application in a French prune orchard, Glenn County, California, USA: Temporal patterns and the effect of ground covers. *Environmental Toxicology and Chemistry [Environ. Toxicol. Chem.]. Vol. 23, no. 11, pp. 2719-2726. Nov 2004.*Rejection Code: EFFLUENT.
- 1449. White, Brandy J. and Harmon, H. James (2005). Optical solid-state detection of organophosphates using organophosphorus hydrolase: Selected Papers from the Eighth World Congress on Biosensors, Part II. *Biosensors and Bioelectronics* 20: 1977-1983.
  Rejection Code: METHODS.
- 1450. White, Brandy J., Legako, J. Andrew, and Harmon, H. James (2003). Extended lifetime of reagentless detector for multiple inhibitors of acetylcholinesterase: Selected papers from the Seventh World Congress on Biosensors Kyoto, Japan 15-17 May 2002. *Biosensors and Bioelectronics* 18: 729-

734.

Rejection Code: METHODS.

1451. WHITE PF ( 1995). BIOLOGICAL CONTROL OF MUSHROOM PESTS AN EVALUATION.

ELLIOTT, T. J. (ED.). MUSHROOM SCIENCE, VOL. 14. 1-2. SCIENCE AND CULTIVATION

OF EDIBLE FUNGI, VOLS. 1 AND 2; 14TH INTERNATIONAL CONGRESS, OXFORD,

ENGLAND, UK, SEPTEMBER 17-22, 1995. XXIV+472P.(VOL. 1); XI+501P.(VOL. 2) A. A.

BALKEMA: ROTTERDAM, NETHERLANDS; BROOKFIELD, VERMONT, USA. ISBN 90-5410570-4(SET); ISBN 90-5410-571-2(VOL. 1); ISBN 90-5410-572-0(VOL. 2).; 14 (1-2). 1995. 475484.

Rejection Code: ABSTRACT.

1452. Whitehead, A. G. and Turner, S. J. (1998). Management and Regulatory Control Strategies for Potato Cyst Nematodes (Globodera rostochiensis and Globodera pallida). *In: R.J.Marks and B.B.Brodie* (*Eds.*), *Potato Cyst Nematodes: Biology, Distribution and Control, Cab Int., Wallingford, England* 135-152.

Rejection Code: REVIEW.

- 1453. Whitmore, D. H. Jr. and Hodges, D. H. Jr. (1978). In Vitro Pesticide Inhibition of Muscle Esterases of the Mosquitofish, Gambusia affinis. *Comp.Biochem.Physiol.C* 59: 145-149. Rejection Code: IN VITRO.
- 1454. Whitney, W. K. (1967). Laboratory Tests with Dursban and Other Insecticides in Soil. *J.Econ.Entomol.* 60: 68-74.

; Habitat: T

- 1455. WHO (1985). SPECIFICATIONS FOR PESTICIDES USED IN PUBLIC HEALTH INSECTICIDES MOLLUSCICIDES REPELLENTS METHODS SIXTH EDITION. WHO. SPECIFICATIONS FOR PESTICIDES USED IN PUBLIC HEALTH: INSECTICIDES, MOLLUSCICIDES, REPELLENTS, METHODS, SIXTH EDITION. 384P. WHO: GENEVA, SWITZERLAND. ILLUS. PAPER. ISBN 92-4-156084-3.; 0 (0). 1985 (RECD. 1986). 384P. Rejection Code: NO TOX DATA.
- 1456. Whyatt, R. M., Camann, D. E., Kinney, P. L., Reyes, A., Ramirez, J., Dietrich, J., Diaz, D., Holmes, D., and Perera, F. P. (2002). Residential Pesticide Use during Pregnancy among a Cohort of Urban Minority Women. *Environmental Health Perspectives [Environ. Health Perspect.]. Vol. 110, no. 5, pp. 507-514. May 2002.*Rejection Code: HUMAN HEALTH.
- 1457. Whyatt, R. M., Rauh, V., Barr, D. B., Camann, D. E., Andrews, H. F., Garfinkel, R., Hoepner, L. A., Diaz, D., Dietrich, J., Reyes, A., Tang, D., Kinney, P. L., and Perera, F. P. (2004). Prenatal Insecticide Exposures and Birth Weight and Length among an Urban Minority Cohort. *Environmental Health Perspectives [Environ. Health Perspect.]. Vol. 112, no. 10, pp. 1125-1132. Jul 2004.*Rejection Code: HUMAN HEALTH.
- 1458. Wilkinson, F. C. (1979). Dermatophilosis of Sheep Association with Dipping and Effects on Production. *Aust.Vet.J.* 55: 74-76. Rejection Code: NO CONC.
- 1459. Wilkinson, F. C. (1980). The Uptake of Dipping Fluid and Persistence of Diazinon on Shower-Dipped Sheep. *Aust.Vet.J.* 56: 561-562.

; Habitat: T; Effect Codes: ACC

- 1460. Willson, Michele, Sanchez, Michel, and Labarre, Jean-Francois (1987). The gemtetraziridinocyclotriphosphazene diazide, N3P3Az4(N3)2, a synthon to monophosphazenylmonoazido derivatives of biological interest. *Inorganica Chimica Acta* 136: 53-59.
  Rejection Code: METHODS.
- 1461. Wilschut, Jan, Scholma, Janny, Bental, Michal, Hoekstra, Dick, and Nir, Shlomo (1985). Ca2+-induced fusion of phosphatidylserine vesicles: mass action kinetic analysis of membrane lipid mixing and aqueous contents mixing. *Biochimica et Biophysica Acta (BBA) Biomembranes* 821: 45-55.

  Rejection Code: METHODS.
- 1462. Wilson, Irwin B. and Cohen, Max (1953). The essentiality of acetylcholinesterase in conduction. *Biochimica et Biophysica Acta* 11: 147-156. Rejection Code: METHODS.
- 1463. Wilson, Irwin B. and Ginsburg, Sara (1959). Reactivation of alkylphosphate inhibited acetylcholinesterase by bis quaternary derivatives of 2-PAM and 4-PAM. *Biochemical Pharmacology* 1: 200-206. Rejection Code: IN VITRO.
- 1464. Wilson, Irwin B. and Sondheimer, Fred (1957). A specific antidote against lethal alkyl phosphate intoxication. V. Antidotal properties. *Archives of Biochemistry and Biophysics* 69: 468-474. Rejection Code: NO COC.
- 1465. Wilson, L., Martin, P. A., Elliott, J. E., Mineau, P., and Cheng, K. M. (2001). Exposure of California Quail to Organophosphorus Insecticides in Apple Orchards in the Okanagan Valley, British Columbia. *Ecotoxicology* 10: 79-90.

  Rejection Code: MIXTURE.
- 1466. Winberg, S., Bjerselius, R., Baatrup, E., and Doving, K. B. (1992). The Effect of Cu (II) on the Electro-Olfactogram (EOG) of the Atlantic Salmon (Salmo salar L) in Artificial Freshwater of Varying Inorganic Carbon Concentrations. *Ecotoxicol.Environ.Saf.* 24: 167-178.
  - ; Habitat: A; Effect Codes: PHY
- 1467. Winterlin, W., Seiber, J. N., Craigmill, A., Baier, T., Woodrow, J., and Walker, G. (1989). Degradation of Pesticide Waste Taken from a Highly Contaminated Soil Evaporation Pit in California. *Arch.Environ.Contam.Toxicol.* 18: 734-747.

  <u>Rejection Code</u>: NO SPECIES.
- 1468. WITTER, B., FRANCKE, W., FRANKE, S., KNAUTH H-D, and MIEHLICH, G. (1998). Distribution and mobility of organic micropollutants in River Elbe flood plains. *CHEMOSPHERE*; *37* 63-78. Rejection Code: FATE.
- 1469. Wolcott, Robert M. and Neal, Robert A. (1972). Effect of structure on the rate of the mixed function oxidase catalyzed metabolism of a series of parathion analogs. *Toxicology and Applied Pharmacology* 22: 676-683.

  Rejection Code: IN VITRO.
- 1470. Wolf, D. D., Buss, G. R., and Pienkowski, R. L. (1976). Growth and Physiological Response of Alfalfa to Diazinon and Methoxychlor Insecticides. *Crop Sci.* 16: 190-192.
  - ; Habitat: T; Effect Codes: GRO
- 1471. Wolthuis, O. L. and Vanwersch, R. A. P. (1984). Behavioral Changes in the Rat After Low Doses of Cholinesterase Inhibitors. *Fundam.Appl.Toxicol.* 4: S195-S208.

- ; Habitat: T; Effect Codes: BEH
- 1472. Wong, P. K. and Chang, L. (1988). The Effects of 2,4-D Herbicide and Organophosphorus Insecticides on Growth, Photosynthesis, and Chlorophyll a Synthesis of Chlamydomonas reinhardtii (mt+). *Environ.Pollut.* 55: 179-189.
  - ; Habitat: A; Effect Codes: PHY,GRO,BCM
- 1473. Wood, B. and Stark, J. D. (2002). Acute Toxicity of Drainage Ditch Water from a Washington State Cranberry-Growing Region to Daphnia pulex in Laboratory Bioassays. *Ecotoxicology and Environmental Safety [Ecotoxicol. Environ. Saf.]. Vol. 53, no. 2, pp. 273-280. Oct 2002.* Rejection Code: EFFLUENT.
- 1474. WOOD SJ and OSBORNE RH (1991). Is sulfotep a proctolin receptor antagonist? *PESTIC SCI*; 32 485-491.Rejection Code: NO TOX DATA.
- 1475. WOODWARD KN (1992). USES AND REGULATION OF VETERINARY DRUGS INTRODUCTION.

  HUTSON, D. H., ET AL. (ED.). ACS SYMPOSIUM SERIES, 503. XENOBIOTICS AND FOODPRODUCING ANIMALS: METABOLISM AND RESIDUES; 202ND NATIONAL MEETING OF
  THE AMERICAN CHEMICAL SOCIETY, NEW YORK, NEW YORK, USA, AUGUST 25-30, 1991.

  XII+255P. AMERICAN CHEMICAL SOCIETY: WASHINGTON, DC, USA. ISBN 0-8412-2472-2.;
  0 (0). 1992. 2-16.
  Rejection Code: NO TOX DATA.
- 1476. World Health Organization (1998). Diazinon. *Int.Prog.on Chem.Saf.*, *W.H.O.*, *Geneva*, *Switzerland* 140 p. Rejection Code: REVIEW.
- 1477. WORTHING CR (1991). THE PESTICIDE MANUAL A WORLD COMPENDIUM 9TH EDITION.

  WORTHING, C. R. (ED.). THE PESTICIDE MANUAL: A WORLD COMPENDIUM, 9TH

  EDITION. XLVII+1141P. BRITISH CROP PROTECTION COUNCIL: FARNHAM, ENGLAND,

  UK. ILLUS. ISBN 0-948404-42-6.; 0 (0). 1991. XLVII+1141P.

  Rejection Code: REVIEW.
- 1478. Wright, C. G., Leidy, R. B., and Dupree, H. E. (1982). Diazinon and Chlorpyrifos in the Air of Moving and Stationary Pest Control Vehicles. *Bulletin of Environmental Contamination and Toxicology [BULL. ENVIRON. CONTAM. TOXICOL.]. Vol. 28, no. 1, pp. 119-121. 1982.*Rejection Code: NO TOX DATA.
- 1479. Wright, C. G., Leidy, R. B., and Dupree, H. E. Jr (1989). Acephate present in food-serving areas of buildings after baseboard spraying. *Bulletin of Environmental Contamination and Toxicology. Vol. 43, no. 5, pp. 713-716. 1989.* Rejection Code: SURVEY.
- 1480. WRIGHT DJ and VERKERK, R. HJ (1995). Integration of chemical and biological control systems for arthropods: Evaluation in a multitrophic context. *PESTICIDE SCIENCE*; 44 207-218. Rejection Code: REVIEW, METHODS.
- 1481. Wu, H. X., EVREUX-GROS, C., and Descotes, J. (1996). Diazinon Toxicokinetics, Tissue Distribution and Anticholinesterase Activity in the Rat. *Biomed.Environ.Sci.* 9: 359-369.
  - ; Habitat: T; Effect Codes: BCM
- 1482. Wu, H. X., Evreux-Gros, C. I., and Descotes, J. (1996). Influence of cimetidine on the toxicity and

toxicokinetics of diazinon in the rat. *Human & Experimental Toxicology [HUM. EXP. TOXICOL.]. Vol. 15, no. 5, pp. 391-395. 1996.*Rejection Code: MIXTURE.

- 1483. Wu, J. G., Luan, T. G., Lan, C. Y., Lo, W. H., and Chan, G. Y. S. (Efficacy evaluation of low-concentration of ozonated water in removal of residual diazinon, parathion, methyl-parathion and cypermethrin on vegetable. *Journal of Food Engineering* In Press, Corrected Proof. Rejection Code: METHODS.
- 1484. Wu, Jiguo, Luan, Tiangang, Lan, Chongyu, Hung Lo, Thomas Wai, and Chan, Gilbert Yuk Sing (Removal of residual pesticides on vegetable using ozonated water. *Food Control* In Press, Corrected Proof. Rejection Code: FATE.
- 1485. Yamada, Atsuko, Shoji, Tetsuo, Tahara, Hideki, Emoto, Masanori, and Nishizawa, Yoshiki (2001). Effect of insulin resistance on serum paraoxonase activity in a nondiabetic population. *Metabolism* 50: 805-811.

  Rejection Code: HUMAN HEALTH.
- 1486. Yamagiwa, Noriyuki, Abiko, Yumi, Sugita, Mari, Tian, Jun, Matsunaga, Shigeki, and Shibasaki, Masakatsu (2006). Catalytic asymmetric cyano-phosphorylation of aldehydes using a YLi3tris(binaphthoxide) complex (YLB): Asymmetric Catalysis. *Tetrahedron: Asymmetry* 17: 566-573. Rejection Code: METHODS.
- 1487. Yamamoto, Kagetoshi, Matsue, Yuji, Hara, Osamu, and Murata, Ichiro (1982). The chemistry of phenalenium systems XXXIII. The Dibenzo[de;thi]naphthacenyl dication and the dianon. *Tetrahedron Letters* 23: 877-880. Rejection Code: METHODS.
- 1488. Yanai, Hikaru and Taguchi, Takeo (2005). Indium(III) triflate catalyzed tandem azidation/1,3-dipolar cycloaddition reaction of [omega],[omega]-dialkoxyalkyne derivatives with trimethylsilyl azide. *Tetrahedron Letters* 46: 8639-8643.

  Rejection Code: METHODS.
- 1489. Yang, Li, Zhao, Yu-hua, Zhang, Bing-xin, Yang, Ching-Hong, and Zhang, Xin (2005). Isolation and characterization of a chlorpyrifos and 3,5,6-trichloro-2-pyridinol degrading bacterium. *FEMS Microbiology Letters* 251: 67-73.

  <u>Rejection Code</u>: BACTERIA.
- 1490. Yang, Raymond S. H., Dauterman, Walter C., and Hodgson, Ernest (1969). Enzymatic degradation of diazinon by rat liver microsomes. *Life Sciences* 8: 667-672. Rejection Code: METABOLISM.
- 1491. Yang, T. and Zhang, F. (1989). Acute Toxicity of 7 Pesticides on 2 Species of Common Leeches. *China Environ.Sci.(Zhongguo Huanjing Kexue)* 9: 51-55 (CHI) (ENG ABS).
  - ; Habitat: A; Effect Codes: MOR
- 1492. Yasuno, M., Hirakoso, S., Sasa, M., and Uchida, M. (1965). Inactivation of Some Organophosphorous Insecticides by Bacteria in Polluted Water. *Jpn.J.Exp.Med.* 35: 545-563.
  - ; Habitat: A
- 1493. Yasuno, M. and Kerdpibule, V. (1967). Susceptibility of Larvae of Culex pipiens fatigans to Organophosphorous Insecticides in Thailand. *Jpn.J.Exp.Med.* 37: 559-562.

- ; Habitat: A; Effect Codes: MOR
- 1494. Yasutomi, K. and Takahashi, M. (1987). Insecticidal resistance of Culex tritaeniorhynchus (Diptera: Culicidae) in Japan: A country-wide survey of resistance to insecticides. *Journal of Medical Entomology [J. MED. ENTOMOL.]. Vol. 24, no. 6, pp. 604-608. 1987.*Rejection Code: SURVEY.
- 1495. Yasutomi, K. and Takahashi, M. (1987). Insecticidal Resistance of Culex tritaeniorhynchus (Diptera: Culicidae) in Japan: A Country-Wide Survey of Resistance to Insecticides. *J Med Entomol* 24: 604-608.

  Rejection Code: SURVEY.
- 1496. YENIGUN, O. and SOHTORIK, D. (1995). Calculations with the level II fugacity model for selected organophosphorus insecticides. *WATER AIR AND SOIL POLLUTION; 84* 175-185. Rejection Code: MODELING.
- 1497. Yielding, L. W., Graves, D. E., Brown, B. R., and Yielding, K. L. (1979). Covalent binding of ethidium azide analogs to DNA: Competition by ethidium bromide. *Biochemical and Biophysical Research Communications* 87: 424-432.

  <u>Rejection Code</u>: METHODS.
- 1498. Yielding, Lerena W., Brown, Brenda R., Graves, David E., and Lemone Yielding, K. (1979). Ethidium bromide enhancement of frameshift mutagenesis caused by photoactivatable ethidium analogs.

  \*\*Mutation Research/Fundamental and Molecular Mechanisms of Mutagenesis 63: 225-232.

  \*\*Rejection Code: METHODS.\*\*
- 1499. Yokoyama, Masataka, Matsushita, Michio, Hirano, Sachiko, and Togo, Hideo (1993). Synthesis of 6-oxa-1,5-pentamethylenetetrazoles (sugar tetrazoles). *Tetrahedron Letters* 34: 5097-5100. Rejection Code: METHODS.
- 1500. Yokoyama, T., Saka, H., Fujita, S., and Nishiuchi, Y. (1988). Sensitivity of Japanese Eel, Anguilla japonica, to 68 Kinds of Agricultural Chemicals. *Bull.Agric.Chem.Insp.Stn.* 28: 26-33 (JPN) (ENG ABS).

  Rejection Code: NON-ENGLISH.
- 1501. Yokoyama, T., Saka, H., Fujita, S., and Nishiuchi, Y. (1988). Sensitivity of Japanese Eel, Anguilla japonica, to 68 Kinds of Agricultural Chemicals. *Bull.Agric.Chem.Insp.Stn.* 28: 26-33 (JPN) (ENG ABS).

  Rejection Code: NON-ENGLISH.
- 1502. Yon, Jei-Oh, Nakamura, Hidemitsu, Ohta, Akinori, and Takagi, Masamichi (1998). Incorporation of extracellular phospholipids and their effect on the growth and lipid metabolism of the Saccharomyces cerevisiae cho1/pss mutant. *Biochimica et Biophysica Acta (BBA) Lipids and Lipid Metabolism* 1394: 23-32.

  Rejection Code: METHODS.
- 1503. Yoo, J. K., Lee, S. W., Ahn, Y. J., Nagata, T., and Shono, T. (2002). Altered Acetylcholinesterase as a Resistance Mechanism in the Brown Planthopper (Homoptera: Delphacidae), Nilaparvata lugens Stal. *Appl.Entomol.Zool.* 37: 37-41.
  - ; Habitat: T; Effect Codes: BCM, MOR
- 1504. Yoshioka, Y., Mizuno, T., Ose, Y., and Sato, T. (1986). The Estimation for Toxicity of Chemicals on Fish by Physico-chemical Properties. *Chemosphere* 15: 195-203 (OECDG).

- ; Habitat: A; Effect Codes: MOR
- 1505. Young, Ku, Chang, Jay-Lin, Shen, Yung-Shuen, and Lin, Shi-Yow (1998). Decomposition of diazinon in aqueous solution by ozonation. *Water Research* 32: 1957-1963.

  Rejection Code: FATE.
- 1506. YOUNOS TM and WEIGMANN DL (1988). PESTICIDES A CONTINUING DILEMMA. *J WATER POLLUT CONTROL FED*; 60 1199-1205.

  Rejection Code: REVIEW.
- 1507. Yu, Jya-Jyun (2002). Removal of organophosphate pesticides from wastewater by supercritical carbon dioxide extraction. *Water Research* 36: 1095-1101.

  Rejection Code: METHODS.
- 1508. Yu, S. J. (1991). Insecticide Resistance in the Fall Armyworm, Spodoptera frugiperda (J. E. Smith). *Pestic.Biochem.Physiol.* 39: 84-91.
  - ; Habitat: T; Effect Codes: MOR
- 1509. Yu, S. J. (1988). Selectivity of Insecticides to the Spined Soldier Bug (Heteroptera: Pentatomidae) and Its Lepidopterous Prey. *J.Econ.Entomol.* 81: 119-122.
  - ; Habitat: T
- 1510. YUEH L-Y and HENSLEY DL (1990). PESTICIDE INFLUENCE ON NITROGEN FIXATION AND NODULATION BY SOYBEAN AND LIMA BEAN. 87TH ANNUAL MEETING OF THE AMERICAN SOCIETY FOR HORTICULTURAL SCIENCE, TUCSON, ARIZONA, USA, NOVEMBER 4-8, 1990. HORTSCIENCE; 25 (9). 1990. 1145. AB BIOSIS COPYRIGHT: BIOL ABS. RRM ABSTRACT GLYCINE-MAX PHASEOLUS-LUNATUS RHIZOBIUM PLANT BACTERIA MICROORGANISM DIAZINON TRIFLURALIN CROP INDUSTRY AGRICULTURE. Rejection Code: ABSTRACT.
- 1511. Zago, M. Paola and Oteiza, Patricia I. (2001). The antioxidant properties of zinc: interactions with iron and antioxidants. *Free Radical Biology and Medicine* 31: 266-274.

  <u>Rejection Code</u>: NO TOX DATA.
- 1512. Zaroogian, G., Heltshe, J. F., and Johnson, M. (1985). Estimation of Toxicity to Marine Species with Structure-Activity Models Developed to Estimate Toxicity to Freshwater Fish. *Aquat.Toxicol.* 6: 251-270.

  Rejection Code: REFS CHECKED/REVIEW.
- 1513. Zaroogian, G. E., Heltshe, J. F., and Johnson, M. (1985). Estimation of Bioconcentration in Marine Species Using Structure-Activity Models. *Environ.Toxicol.Chem.* 4: 3-12. Rejection Code: MODELING/QSAR/REFS CHECKED/REVIEW.
- 1514. Zeigler, M., Zlotogora, J., Regev, R., Dagan, A., Gatt, S., and Bach, G. (1984). Prenatal diagnosis of krabbe disease using a fluorescent derivative of galactosylceramide. *Clinica Chimica Acta* 142: 313-318. Rejection Code: HUMAN HEALTH.
- 1515. Zellmer, S., Cevc, G., and Risse, P. (1994). Temperature- and pH-controlled fusion between complex lipid membranes. Examples with the diacylphosphatidylcholine/fatty acid mixed liposomes. *Biochimica et Biophysica Acta (BBA) Biomembranes* 1196: 101-113.

  Rejection Code: METHODS.

- 1516. ZHANG, Q. and PEHKONEN SO (1999). Oxidation of diazinon by aqueous chlorine: Kinetics, mechanisms, and product studies. *JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY;* 47 1760-1766.

  Rejection Code: FATE.
- 1517. Zhang, Ye, Garzon-Rodriguez, William, Manning, Mark C., and Anchordoquy, Thomas J. (2003). The use of fluorescence resonance energy transfer to monitor dynamic changes of lipid-DNA interactions during lipoplex formation. *Biochimica et Biophysica Acta (BBA) Biomembranes* 1614: 182-192. Rejection Code: METHODS.
- 1518. Zhao, G., Liu, W., Brown, J. M., and Knowles, C. O. (1995). Insecticide Resistance in Field and Laboratory Strains of Western Flower Thrips (Thysanoptera: Thripidae). *J.Econ.Entomol.* 88: 1164-1170.
  - ; Habitat: T; Effect Codes: MOR
- 1519. Zhao, Jinbao, Kimura, Shunsaku, and Imanishi, Yukio (1996). Fusion of liposomes due to transient and lasting perturbation induced by synthetic amphiphilic peptides. *Biochimica et Biophysica Acta (BBA) Biomembranes* 1283: 37-44.

  Rejection Code: METHODS.
- 1520. Zimmerman, P. W. and Hartzell, A. (1948). Hexaethyl Tetraphosphate and Tetraethyl Pyrophosphate: I.Their Effects on Plants. *Contr Boy T* 15: 11-19.
  - ; Habitat: T; Effect Codes: MOR,POP
- 1521. Zinkl, J. G., Rathert, J., and Hudson, R. R. (1978). Diazinon Poisoning in Wild Canada Geese. *J.Wildl.Manag.* 42: 406-408.

  Rejection Code: NO CONC/NO DURATION/SURVEY.
- 1522. Zou, Chenhui, Wang, Yajie, and Shen, Zhufang (2005). 2-NBDG as a fluorescent indicator for direct glucose uptake measurement. *Journal of Biochemical and Biophysical Methods* 64: 207-215. Rejection Code: IN VITRO.

## **Appendix I. Individual Effect Analysis**

As discussed in the effects assessment section of the chapter, OPP conducted an analysis of U.S.G.S. data used to support the Mayer and Ellerseick data set. The analysis included 48-hr acute toxicity data for freshwater aquatic invertebrates including *Simocephalus serrulatus*, *Daphnia pulex*, *Gammarus fasciatus* and *Pteronarcys californica* (**Table I1**). Across the four species, the 48-hr probit dose response slope ranged from 5.74 to 6.90; the mean slope and standard error of the mean were 6.34 and 0.21, respectively. Since a probit dose-response slope is not available for the most the most sensitive species, *i.e.*, *Ceriodaphnia dubia*, the mean slope of 6.34 will be used in the analysis of potential individual effects discussed below.

Table I1. Acute 48-hr and 96-hr  $LC_{50}$  values for freshwater aquatic invertebrates based on USGS data used in support of Mayer and Ellerseick.

		- >		
Species	48-hr LC <sub>50</sub> (95% CI)	Slope	96-hr LC <sub>50</sub>	Slope
Simocephalus	1.34 (1.00 - 1.71)	6.9	no data	
serrulatus				
S. serrulatus	1.67 (1.31 - 2.16)	6.71	no data	
Daphnia pulex	0.79 (0.58 - 1.02)	6.20	no data	
Gammarus fasciatus	4.71 (3.69 - 6.11)	6.13	1.99 (1.48 -	4.67
			2.63)	
Pteronarcys	59.4 ( 42.5 - 83.3)	5.74	20.5	22.7
califonica				

Likelihood of individual acute effects to freshwater vertebrates based on maximum RQ value of 0.66 (2 aerial applications to lettuce) is 1 in 5 (**Figure I1**). At the acute risk to endangered species LOC of 0.05, the likelihood of individual effects 1 in 4.2 x10<sup>8</sup> (**Figure I2**)

IEC V1 - Individual Effect Chance Model Version 1 Predictor of chance of individual effect using probit dose-response curve slope and median lethal estimate				
Enter LC <sub>50</sub> or LD <sub>50</sub>		Note: This is <u>not</u> used in calculation, just serves as a reminder to user		
Enter desired threshold	0.66	Note: This is either the RQ fraction of the toxicity endpoint, the EEC or dose fraction of the dose/concentration at tox endpoint, or the LOC		
Enter slope of dose-response		Note: This is the slope of the dose response relationship from the study providing the above endpoint		
z score result	-0.81205229	z is the standard normal deviate		
Probability associated with z	0.20838081	Uses Excel NORMDIST function to estimate P		
Chance of individual effect, ~1 in	4.80E+00	Calculated as 1/P rounded to 0 decimals		
This is based on the formula $logLC_k = logLC_{50} + (z/b)$				
where: z is the standard normal deviate and b equals slope				
Works for dose-response models based on a probit assumptio	n (i.e. log normal	distribution of individual sensitivity)		
Note: Probability asociated with z value may be reported as "0". This is due to the inability of Excel to handle extremes in z scores beyond -8.2 In such cases the chance of individual effect is defaulted to 1 in 10 <sup>16</sup> , which is the limit of Excel reporting.				
Ed Odenkirchen, May 28, 2003 EFED/OPP/USEP	'A			

Figure I1. Estimation of likelihood on individual mortality based on risk quotients for freshwater vertebrates (RQ=0.66) following 2 applications per year to lettuce. Estimated dose-response slope is 4.5.

Enter LC <sub>50</sub> or LD <sub>50</sub>	90	Note: This is not used in calculation, just serves as a reminder to user		
Enter desired threshold	0.05	Note: This is either the RQ fraction of the toxicity endpoint, the EEC or dose fraction of the dose/concentration at tox endpoint, or the LOC		
Enter slope of dose-response	4.5	Note: This is the slope of the dose response relationship from the study providing the above endpoint		
z score result	-5.85463498	z is the standard normal deviate		
Probability associated with z	2.3903E-09	Uses Excel NORMDIST function to estimate P		
Chance of individual effect, ~1 in	4.18E+08	Calculated as 1/P rounded to 0 decimals		
This is based on the formula $logLC_k = logLC_{50} + (z/logLC_{60})$	o)			
where: z is the standard normal deviate and b equals slope				
Works for dose-response models based on a probit assumption (i.e. log normal distribution of individual sensitivity)				
Note: Probability associated with z value may be reported as "0". This is due to the inability of Excel to handle extremes in z scores beyond -8.2 In such cases the chance of individual effect is defaulted to 1 in 10 <sup>16</sup> , which is the limit of Excel reporting.				

Figure I2. Estimation of likelihood on individual mortality based on risk quotients for freshwater vertebrates equivalent to the endangered species LOC (RQ=0.05). Estimated dose-response slope is 4.5.

Likelihood of individual acute mortality in freshwater invertebrates based on and RQ value of 283 following 2 applications to lettuce is 100% (**Figure I3**). Even at RQ values of 3, the likelihood of individual mortality is 100% (**Figure I4**).

Enter LC <sub>50</sub> or LD <sub>50</sub>	0.21	Note: This is not used in calculation, just serves as a reminder to user		
Enter desired threshold	283	Note: This is either the RQ fraction of the toxicity endpoint, the EEC or dose fraction of the dose/concentration at tox endpoint, or the LOC		
Enter slope of dose-response	6.34	Note: This is the slope of the dose response relationship from the study providing the above endpoint		
z score result	15.544326	z is the standard normal deviate		
Probability associated with z	1	Uses Excel NORMDIST function to estimate P		
Chance of individual effect, ~1 in	1.00E+00	Calculated as 1/P rounded to 0 decimals		
This is based on the formula logLC <sub>k</sub> = logLC <sub>50</sub> +(z/b) where: z is the standard normal deviate and b equals slope Works for dose-response models based on a probit assumption (i.e. log normal distribution of individual sensitivity) Note: Probability associated with z value may be reported as "0". This is due to the inability of Excel to handle extremes in z scores beyond -8.2 In such cases the chance of individual effect is defaulted to 1 in 10 <sup>16</sup> , which is the limit of Excel reporting.				

Figure I3. Estimation of likelihood of individual mortality based on risk quotients for freshwater invertebrates (RQ=283) following 2 applications per year to lettuce. Estimated dose-response slope is 6.34.

EC V1 - Individual Effect Chance Model Version 1				
Predictor of chance of individual effect using p	robit dose-re	sponse curve slope and median lethal estimate		
Enter LC <sub>50</sub> or LD <sub>50</sub>	0.21	Note: This is <u>not</u> used in calculation, just serves as a reminder to user		
Enter desired threshold		Note: This is either the RQ fraction of the toxicity endpoint, the EEC or dose fraction of the dose/concentration at tox endpoint, or the LOC		
Enter slope of dose-response	6.34	Note: This is the slope of the dose response relationship from the study providing the above endpoint		
z score result	3.02494875	z is the standard normal deviate		
Probability associated with z	0.99875662	Uses Excel NORMDIST function to estimate P		
Chance of individual effect, ~1 in	1.00E+00	Calculated as 1/P rounded to 0 decimals		
This is based on the formula $logLC_k = logLC_{50} + (z/b)$ where: z is the standard normal deviate and b equals slope Works for dose-response models based on a probit assumption (i.e. log normal distribution of individual sensitivity)				
Note: Probability asociated with z value may be reported as "C In such cases the chance of individual effect is defaulte		he inability of Excel to handle extremes in z scores beyond -8.2 ch is the limit of Excel reporting.		
Ed Odenkirchen, May 28, 2003 EFED/OPP/USEP	PA			

Figure I4. Estimation of likelihood of individual mortality based on risk quotients for freshwater invertebrates (RQ=3). Estimated dose-response slope is 6.34.

The likelihood of mortality in terrestrial-phase CRLF based on dose-based RQ value of 1.82 for 1.4-g frogs feeding on small insects (RQ=1.82) is roughly 100% (**Figure I5**). At RQ values at the acute risk to endangered species LOC (RQ=0.1), the likelihood of individual mortality is 1 in 570 (**Figure I6**).

IEC V1 - Individual Effect Chance Model Version 1					
Predictor of chance of individual effect using p	robit dose-res	sponse curve slope and median lethal estimate			
Enter LC <sub>50</sub> or LD <sub>50</sub>	1.44	Note: This is <u>not</u> used in calculation, just serves as a reminder to user			
		Note: This is either the RQ fraction of the toxicity endpoint, the EEC or			
Enter desired threshold	1.82	dose fraction of the dose/concentration at tox endpoint, or the LOC			
Enter slope of dose-response	2.92	Note: This is the slope of the dose response relationship from the study providing the above endpoint			
z score result	0.75940845	z is the standard normal deviate			
Probability associated with z	0.77619587	Uses Excel NORMDIST function to estimate P			
Chance of individual effect, ~1 in	1.29E+00	Calculated as 1/P rounded to 0 decimals			
This is based on the formula $logLC_k = logLC_{50} + (z/k)$	))				
where: z is the standard normal deviate and b equa	als slope				
Works for dose-response models based on a probit assumptio	Works for dose-response models based on a probit assumption (i.e. log normal distribution of individual sensitivity)				
Note: Probability asociated with z value may be reported as "0". This is due to the inability of Excel to handle extremes in z scores beyond -8.2 In such cases the chance of individual effect is defaulted to 1 in 10 <sup>16</sup> , which is the limit of Excel reporting.					
Ed Odenkirchen, May 28, 2003 EFED/OPP/USEP	A				

Figure I5. Estimation of likelihood of individual mortality based on dose-based risk quotients for terrestrial-phase CRLF (RQ=1.82) resulting from applications to figs. Estimated dose-response slope is 2.92.

IEC V1 - Individual Effect Chance Model Version 1				
Predictor of chance of individual effect using p	robit dose-re	sponse curve slope and median lethal estimate		
Enter LC <sub>50</sub> or LD <sub>50</sub>	1.44	Note: This is <u>not</u> used in calculation, just serves as a reminder to user		
Enter desired threshold	0.1	Note: This is either the RQ fraction of the toxicity endpoint, the EEC or dose fraction of the dose/concentration at tox endpoint, or the LOC		
Enter slope of dose-response		Note: This is the slope of the dose response relationship from the study providing the above endpoint		
z score result	-2.92	z is the standard normal deviate		
Probability associated with z	0.00175016	Uses Excel NORMDIST function to estimate P		
Chance of individual effect, ~1 in	5.71E+02	Calculated as 1/P rounded to 0 decimals		
This is based on the formula $logLC_k = logLC_{50} + (z/b)$				
where: z is the standard normal deviate and b equals slope				
Works for dose-response models based on a probit assumption (i.e. log normal distribution of individual sensitivity)				
Note: Probability associated with z value may be reported as "0". This is due to the inability of Excel to handle extremes in z scores beyond -8.2 In such cases the chance of individual effect is defaulted to 1 in 10 <sup>16</sup> , which is the limit of Excel reporting.				
Ed Odenkirchen, May 28, 2003 EFED/OPP/USEP	Α			

Figure I6. Estimation of likelihood of individual mortality at the acute risk to endangered species LOC of 0.1. Estimated dose-response slope is 2.92.

The likelihood of individual mortality in terrestrial-phase CRLF using a dietary-based RQ value for frogs feeding on small insects (RQ=2.11) is roughly 100% (**Figure 17**). However, with a subacute dietary dose-response slope of 5.6, the likelihood of individual effects at the endangered species LOC is 1 in  $9.3 \times 10^7$  (**Figure 18**).

IEC V1 - Individual Effect Chance Model Version 1				
Predictor of chance of individual effect using p	robit dose-re	sponse curve slope and median lethal estimate		
Enter LC <sub>50</sub> or LD <sub>50</sub>	32	Note: This is not used in calculation, just serves as a reminder to user		
		Note: This is either the RQ fraction of the toxicity endpoint, the EEC or		
Enter desired threshold	2.11	dose fraction of the dose/concentration at tox endpoint, or the LOC		
		Note: This is the slope of the dose response relationship from the study		
Enter slope of dose-response	5.6	providing the above endpoint		
z score result	1.81598175	z is the standard normal deviate		
Probability associated with z	0.96531341	Uses Excel NORMDIST function to estimate P		
Chance of individual effect, ~1 in	1.04E+00	Calculated as 1/P rounded to 0 decimals		
This is based on the formula $logLC_k = logLC_{50}+(z/b)$	)			
where: z is the standard normal deviate and b equa	als slope			
Works for dose-response models based on a probit assumption (i.e. log normal distribution of individual sensitivity)				
Note: Probability asociated with z value may be reported as "0". This is due to the inability of Excel to handle extremes in z scores beyond -8.2 In such cases the chance of individual effect is defaulted to 1 in 10 <sup>16</sup> , which is the limit of Excel reporting.				
Ed Odenkirchen, May 28, 2003 EFED/OPP/USEP	A			

Figure I7. Estimation of likelihood of individual mortality using a dietary-based risk quotients for terrestrial-phase CRLF (RQ=2.11) resulting from diazinon applications to figs. Estimated doseresponse slope is 5.6.

IEC V1 - Individual Effect Chance Model Version 1				
Predictor of chance of individual effect using p		sponse curve slope and median lethal estimate		
Enter LC <sub>50</sub> or LD <sub>50</sub>		Note: This is not used in calculation, just serves as a reminder to user		
Enter desired threshold	0.1	Note: This is either the RQ fraction of the toxicity endpoint, the EEC or dose fraction of the dose/concentration at tox endpoint, or the LOC Note: This is the slope of the dose response relationship from the study		
Enter slope of dose-response		providing the above endpoint		
z score result	-5.6	z is the standard normal deviate		
Probability associated with z	1.0718E-08	Uses Excel NORMDIST function to estimate P		
Chance of individual effect, ~1 in	9.33E+07	Calculated as 1/P rounded to 0 decimals		
This is based on the formula $logLC_k = logLC_{50} + (z/t)$	•			
where: z is the standard normal deviate and b equi	•			
Works for dose-response models based on a probit assumption (i.e. log normal distribution of individual sensitivity)				
Note: Probability asociated with z value may be reported as "0". This is due to the inability of Excel to handle extremes in z scores beyond -8.2 In such cases the chance of individual effect is defaulted to 1 in 10 <sup>15</sup> , which is the limit of Excel reporting.				
Ed Odenkirchen, May 28, 2003 EFED/OPP/USEP	'A			

Figure I8. Estimation of likelihood of individual mortality at the acute risk to endangered species LOC of 0.1. Estimated subacute dietary dose-response slope is 5.6.

Likelihood of individual mortality to amphibian prey items using a dietary-based RQ value of 17 and a default dose-response slope of 5.6 is 100% (**Figure 19**). At the highest RQ values for mammalian prey items (RQ=0.47) the likelihood of individual mortality of mammalian prey is 1 in 14 (<10%) (**Figure I10**)

Enter LC <sub>50</sub> or LD <sub>50</sub>	32	Note: This is not used in calculation, just serves as a reminder to user
Enter degined threshold	47	Note: This is either the RQ fraction of the toxicity endpoint, the EEC or dose fraction of the dose/concentration at tox endpoint, or the LOC
Enter desired threshold	17	Note: This is the slope of the dose response relationship from the study
Enter slope of dose-response	5.6	providing the above endpoint
z score result	6.89051396	z is the standard normal deviate
Probability associated with z	1	Uses Excel NORMDIST function to estimate P
Chance of individual effect, ~1 in	1.00E+00	Calculated as 1/P rounded to 0 decimals
This is based on the formula $logLC_k = logLC_{50} + (z/z)$	'h)	
<b>3 3</b> ,	,	
where: z is the standard normal deviate and b equ	•	
Works for dose-response models based on a probit assumption	on (i.e. log normal	distribution of individual sensitivity)
		ne inability of Excel to handle extremes in z scores beyond -8.2 ch is the limit of Excel reporting.

Figure I9. Estimation of likelihood of individual mortality of amphibian prey items (RQ=17) and a dose-response slope is 5.6.

Enter LC <sub>50</sub> or LD <sub>50</sub>		sponse curve slope and median lethal estimate  Note: This is not used in calculation, just serves as a reminder to user		
Enter desired threshold	0.47	Note: This is either the RQ fraction of the toxicity endpoint, the EEC or dose fraction of the dose/concentration at tox endpoint, or the LOC		
Enter slope of dose-response	4.5	Note: This is the slope of the dose response relationship from the study providing the above endpoint		
z score result	-1.47555964	z is the standard normal deviate		
Probability associated with z	0.07003107	Uses Excel NORMDIST function to estimate P		
Chance of individual effect, ~1 in	1.43E+01	Calculated as 1/P rounded to 0 decimals		
This is based on the formula logLC <sub>k</sub> = logLC <sub>50</sub> +(z/b) where: z is the standard normal deviate and b equals slope Works for dose-response models based on a probit assumption (i.e. log normal distribution of individual sensitivity) Note: Probability asociated with z value may be reported as "0". This is due to the inability of Excel to handle extremes in z scores beyond -8.2 In such cases the chance of individual effect is defaulted to 1 in 10 <sup>16</sup> , which is the limit of Excel reporting.				

Figure I10. Estimation of likelihood of individual mortality of mammalian prey items (RQ=0.36) and a default dose-response slope is 4.5.

## Appendix J. Use closure memo from SRRD concerning diazinon uses



## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

June 18, 2007

**MEMORANDUM** 

SUBJECT: SRRD and RD Response to EFED Regarding the Current Label and

Use Information for Diazinon (057801) to Support an Endangered

Species Effects Determination.

FROM: Jude Andreasen, Chemical Review Manager Jule Andreasen

Reregistration Branch I, Special Review and Reregistration Division

TO: Thomas Steeger, PhD., Senior Biologist

Kristina Garber, Biologist

Environmental Risk Branch 4, Environmental Fate and Effects Division

CC: Marion Johnson, Chief

Dana Pilitt, Product Manager

Insecticide Branch, Registration Branch

Steve Jarboe, Team Leader

Biological and Economic Analysis Division

 $\sim 2\omega$ 

THRU: Susan Lewis, Chief
Laura Parsons, Team Leader Mun Wiffin

Reregistration Branch I, Special Review and Reregistration Division

In support of the Environmental Fate and Effects Division's (EFED's) endangered species assessment of the California red-legged frog (CRLF), the Special Review and Reregistration Division (SRRD) and the Registration Division (RD) have reviewed the current diazinon labels and prepared the following comments.

SRRD obtained the most recently stamped diazinon labels from Dana Pilitt of the Registration Division (RD) to verify if RD has made any recent label changes on existing registrations of diazinon. Dana Pilitt confirmed that RD does not have pending actions to increase rates for diazinon higher than those listed on the current labels.

There are 38 active diazinon products, 21 of which are Special Local Need (SLN) registrations, including 3 for California, and 3 of which are manufacturing use products (MUPs). The LUIS Report included 37 products, because an additional SLN was added for Oregon in June 2007. Table 1 below provides a complete list of the 17 registered diazinon products as of June 15, 2007, excluding MUPs and SLNs outside of California.

1

Table 1. Complete List of Registered Diazinon Products (as of 06/15/07) Excluding MUPs and SLNs Outside of CA				
	More recent Comment			
Registration Number	label than on	Comment		
Number	LUIS Report			
2935-408	Yes 05/02/07	Voluntary cancellation, no additional uses or higher		
2,00 .00		rates; use sites reduced to one crop		
4581-392	Yes 12/28/06	No additional uses or higher rates		
5905-248	No			
19713-91	No			
19713-492	Yes 12/07/06	No additional uses or higher rates		
66222-9	No			
66222-10	No			
66222-103	No			
CA000030	No			
CA030014	No			
CA050002	No	Quarantine: to be used as needed by authorized		
		government personnel.		
011556-00123	No	Cattle ear tag		
039039-00003	No	Cattle ear tag		
039039-00006	No	Cattle ear tag		
061483-00078	No	Cattle ear tag		
061483-00080	No	Cattle ear tag		
061483-00092	No	Cattle ear tag		

SRRD verified the information presented in the table in EFED's memorandum dated June 4, 2007, and found several discrepancies with a label reference. The EFED table (reproduced below) lists sweet potatoes, but we did not find sweet potatoes on any diazinon label. We did find ginseng and filberts (hazelnuts) on several labels at the maximum rate of 0.5 lb. per year, which did not appear on the EFED table.

We received a voluntary cancellation for one of the labels listed, #2935 - 408, and a new label, approved May 2, 2007, which limits use to one site, lettuce, and two states, Arizona and California, at the rate of 1 pound per acre. The registrant, Wilbur-Ellis, agreed to use the newly-approved label immediately for 2007 product. The old label allowed use of diazinon granular on many vegetables, as well as melons. No comments have been received on the proposed cancellation (comment period ended June 15), so the product will be cancelled. All sales of this product will cease after December 2008. This is the last remaining granular section 3 product for diazinon.

The SLN CA05000200 is registered to the California Department of Food and Agriculture, to be used for fruit fly pests subject to State Quarantine action on ornamental host and tree fruit nursery stock (all fruit must be removed from plants), ornamental nursery stock, and cannery waste drying in fields. It is labeled for use at 5 lbs. a.i. per acre. Treatments are for quarantine and eradication purposes only and limited to conduct under direct supervision by federal, state or county authorized persons. The County

Agricultural Commissioner's (or designee's) signature must be obtained prior to this use. This product is for soil drench under host plants. Commodities on the label which are not included on the EFED table are: fresh beans, bushberries, corn, filberts, grapes, olives, pecans, squash, and walnuts.

EFED Table For Diazinon in Memorandum of June 18, 2007

EFED Table For Diazinon in Memorandum of June 18, 2007			
	M 4	Maximum # of	
Use	Max Ap. rate per application (lbs a.i./A)	applications per vear	Application method(s)
Outdoor ornamentals	1	26*	foliar
Outdoor ornamentals	State of the State of the State of		
Almonds	3	1	foliar or dormant
Has small de le west A			PAYOR ENDING TO BE AND THE PAYOR
Apples	2	2	1 dormant + 1 foliar; or 2 foliar
Apricots	2	2	1 dormant + 1 foliar
Blueberries	1	2	1 in season foliar + 1 fire ant control
Caneberries	2	1	foliar
Cherries	2	2	1 dormant + 1 foliar
Fig	0.5	1	unclear
Nectarines	2	2	1 dormant + 1 foliar
Peaches	2	2	1 dormant + 1 foliar
Pears	2	2	1 dormant + 1 foliar
Plums	2	2	1 dormant + 1 foliar
Prunes	2	2	1 dormant + 1 foliar
Strawberries	1	2	1 foliar + 1 soil (incorporation)
	State of the Marketine		THE RESIDENCE OF THE PARTY OF T
Beans (succulent)	4	1	soil (incorporation)
Beets, Red	4	1	soil (incorporation)
Broccoli	4	1	soil (incorporation)
Brussels Sprouts	4	1	soil (incorporation)
Cabbage	4	1	soil (incorporation)
Carrots	4	1	soil (incorporation)
Cauliflower	4	1	soil (incorporation)
Collards	4	1	soil (incorporation)
Endive	4	1	soil (incorporation)
Kale	4	1	soil (incorporation)
			1 soil (incorporation) + 1 foliar,
Lettuce	2	2**	aerial permitted
Melons	4	2	1 soil (incorporation) + 1 foliar
Mustard greens	4	1	soil (incorporation)
Onions	4	1	soil (incorporation)
Peas (succulent)	4	1	soil (incorporation)
Peppers (bell and chili)	4	1	soil (incorporation)
Radishes	4	1	soil (incorporation)
Rutabagas	4	1	soil (incorporation)
Spinach	4	1	soil (incorporation)
Sweet potatoes	4	1	soil (incorporation)
Tomatoes	4	1	soil (incorporation)

<sup>\*</sup>The label specifies a maximum application rate per season. It is assumed that it is possible to have 26 seasons

per year.

\*\*The label specifies a maximum application rate per season. It is assumed that it is possible to have more than one season of lettuce per year.

# Appendix K. Detailed analysis of final diazinon action area and overlap of action area with CRLF core areas and critical habitat

#### K.1. Currently registered uses of diazinon

Currently, labeled uses of diazinon include several fruit, nut, and vegetable crops as well as cattle ear tags. There are 14 active Section 3 labels of products containing diazinon. The EPA registration numbers for these labels are 2935-408, 4581-392, 5905-248, 19713-91, 19713-492, 66222-9, 66222-10, 66222-103, 11556-123, 39039-3, 39039-6, 61483-78, 61483-80, and 61483-92. In addition, there are 3 special local needs labels for California: CA-000030, CA-030014 and CA-050002. A comprehensive list of these uses included in Table K.1. These uses are the basis for determining the initial action area for areas where diazinon can be directly applied.

Table K.1 Currently registered uses of diazinon.

Category	Use
Agriculture	Beans (succulent), beets (red), blueberries, broccoli, Brussels sprouts,
	cabbage, caneberries, carrots, cauliflower, collards, endive, ginseng, kale,
	lettuce, melons, mustard, onions, outdoor ornamental, peas (succulent),
	peppers, potatoes, radishes, rutabagas, spinach, squash, strawberries, sweet
	corn, tomatoes
Orchard	Almonds, Apples, apricots, cherries, cranberries, nectarines, peaches,
	pears, pineapple, plums, prunes

# K.2. Determination of area where diazinon is potentially directly applied (initial area of concern)

After determination of which uses will be assessed, an evaluation of the potential "footprint" of the use pattern is determined. This "footprint" represents the initial area of concern and is typically based on available land cover data. Local land cover data available for the state of California were analyzed to refine the understanding of potential diazinon use. The initial area of concern is defined as all land cover types that represent the labeled uses described above. The initial area of concern is represented by 1) agricultural landcovers, which are assumed to represent vegetable and non-orchard fruit crops as well as ornamental crops and 2) orchard and vineyard landcovers which are assumed to be representative of tree fruit and almond crops.

Base mapping layers for determining the initial area of concern were obtained from the National Land-cover Dataset (NLCD 2001) for the majority of land use types and the California GAP data (6/98) for the orchards and vineyard uses. The NLCD is a recently released national land use dataset and the GAP is from the Biogeography Lab from UCLA-Santa Barbara. These raster files were converted to vector and used in the analysis. **Table K.2** shows the land-cover sources used.

Table K.2. Land-cover data sources used for determining areas where diazinon is

potentially applied.

potentiany a			
Land-cover	Data S	Sources	
Layer name	Base source	Description	non- NASS
Cultivated Crops	NLCD	82: Areas used for the production of annual crops, such as corn, soybeans, vegetables, tobacco, and cotton, and also perennial woody crops such as orchards and vineyards. Crop vegetation accounts for greater than 20 percent of total vegetation. This class also includes all land being actively tilled.	No
Developed, High Intensity	NLCD	24: Includes highly developed areas where people reside or work in high numbers. Examples include apartment complexes, row houses and commercial/industrial. Impervious surfaces account for 80 to 100 percent of the total cover.	Yes
Developed, Low Intensity	NLCD	22: Includes areas with a mixture of constructed materials and vegetation. Impervious surfaces account for 20-49 percent of total cover. These areas most commonly include single-family housing units.	Yes
Developed, Medium Intensity	NLCD	23: Includes areas with a mixture of constructed materials and vegetation. Impervious surfaces account for 50-79 percent of the total cover. These areas most commonly include single-family housing units.	Yes
Developed, Open Space	NLCD	21: Includes areas with a mixture of some constructed materials, but mostly vegetation in the form of lawn grasses. Impervious surfaces account for less than 20 percent of total cover. These areas most commonly include large-lot single-family housing units, parks, golf courses, and vegetation planted in developed settings for recreation, erosion control, or aesthetic purposes.	Yes
Forest	NLCD	Union of 41,42,43: Deciduous, evergreen and mixed. Areas dominated by trees generally greater than 5 meters tall, and greater than 20% of total vegetation cover.	Yes
Open Water	NLCD	11: All areas of open water, generally with less than 25% cover of vegetation or soil.	Yes
Orchards and vineyards	CA GAP	A union of 11210, 11211 and 11212. This is the only CA GAP reference.	No
Pasture/Hay	NLCD	81: Areas of grasses, legumes, or grass-legume mixtures planted for livestock grazing or the production of seed or hay crops, typically on a perennial cycle. Pasture/hay vegetation accounts for greater than 20 percent of total vegetation.	No
Wetlands	NLCD	Union of 90, 95: Woody wetlands and emergent herbaceous.	Yes

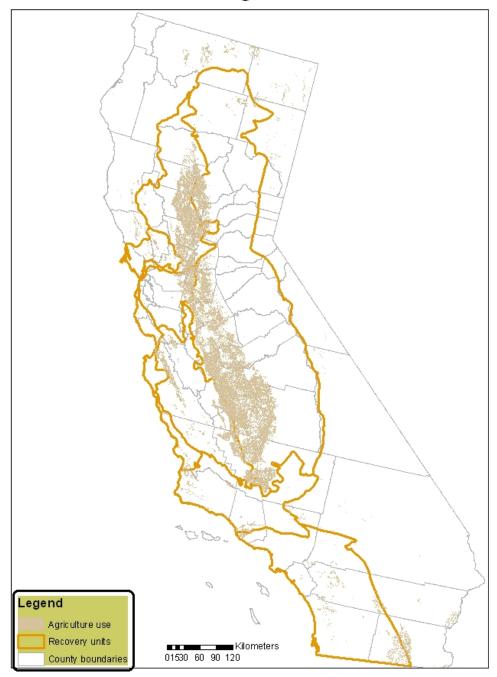
U.S. Department of Agriculture's National Agriculture Statistics Service (NASS) census dataset, 2002 was used to determine whether a crop was grown in a particular county. This census dataset provides survey information over five years on agricultural practices and is used mainly for cultivated or agriculture crops. Chemical labeled uses were matched to NASS uses; an agriculture use match would result in a mapped area for one or more counties.

In counties where a use has been identified, the use is associated with the appropriate landcover data set (Table K.2). It is assumed that this use is potentially grown in the area where the landcover has been identified. For example, almonds are grown in Kern County. According to CA GAP data, there are orchards or vineyards within Kern County. Therefore, it is assumed that almonds, which are grown in orchards, can be grown on any of the land specified by the CA GAP data as orchards or vineyards. This process is carried out for almonds in every county in California.

Uses of diazinon fall into two landcover categories: cultivated crops and orchards and vineyards. Therefore, two separate action area maps are created for the different uses: 1) agriculture, which

is based on the cultivated crop layer from NLCD and 2) orchard crops, which is based on the orchard and vineyard layer from CA GAP. Therefore, two separate action areas are defined for this assessment; one to represent crops represented by agricultural areas and the other to represent areas classified as orchards. For specific uses associated with these categories, see Table K.1. The initial agricultural and orchard action areas are depicted in Figures K.1 and K.2, respectively.

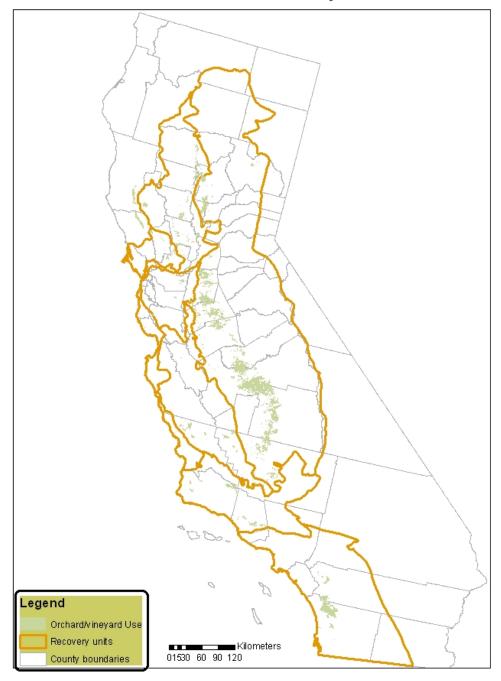
## Diazinon - Agriculture Use



Compiled from California County boundaries (ESRI, 2002), USDA National Agriculture Statistical Service (NASS, 2002) Gap Analysis Program Orchard/ Vineyard Landcover (GAP) National Land Cover Database (NLCD) (MRLC, 2001) Map created by US Erwironmental Protection Agency, Office of Pedicides Programs, Environmental Fate and Effects Division. June XX, 2007. Projection: Albers Equal Area Conic USGS, North American Datum of 1983 (NAD 1983)

Figure K.1. Initial area of concern associated with agricultural uses.

## Diazinon - Orchard/Vineyard Use



Compiled from California County boundaries (ESRI, 2002), USDA National Agriculture Statistical Service (NASS, 2002) Gap Analysis Program Orchard/ Vineyard Landcover (GAP) National Land Cover Database (NLCD) (MRLC, 2001) Map created by US Erwironmental Protection Agency, Office of Pesticides Programs, Erwironmental Fate and Effects Division. June XX, 2007. Projection: Albers Equal Area Conic USGS, North American Datum of 1983 (NAD 1983)

Figure K.2. Initial area of concern associated with orchard uses.

#### K.3. Determination of area indirectly affected by diazinon use

Since this screening level risk assessment defines taxa that are predicted to be exposed through runoff and drift to diazinon at concentrations above the Agency's Levels of Concern (LOC), there is need to expand the action area to include areas that are affected indirectly by this federal action. Two methods are employed to define the areas indirectly affected by the federal action, and thus the total action area. These are the down stream dilution assessment for determining the extent of the affected lotic aquatic habitats (flowing) and the spray drift assessment for determining the extent of the affected terrestrial habitats. In order to define the final action areas relevant to uses of diazinon on agricultural and orchard crops, it is necessary to combine areas directly affected, as well as aquatic and terrestrial habitats indirectly affected by the federal action. It is assumed that lentic aquatic habitats (e.g. ponds, pools, marshes) overlapping with the terrestrial areas are also indirectly affected by the federal action.

The downstream extent includes the area where the EEC could potentially be above levels that would exceed the most sensitive LOC. The model calculates two values, the dilution factor (DF) and the threshold Percent Cropped Area (PCA). The dilution factor (DF) is the maximum RQ/LOC, and the threshold PCA is the inverse value represented as a percent.

The dilution model uses the NHDPlus data set (<a href="http://www.horizon-systems.com/nhdplus/">http://www.horizon-systems.com/nhdplus/</a>) as the framework for the downstream analysis. The NHDPlus includes several pieces of information that can be used to analyze downstream effects. For each stream reach in the hydrography network, the data provide a tally of the total area in each NLCD land cover class for the upstream cumulative area contributing to the given stream reach. Using the cumulative land cover data provided by the NHDPlus, an aggregated use class is created based on the classes listed in Table K.2. A cumulative PCA is calculated for each stream reach based on the aggregate use class (divided by the total upstream contribution area).

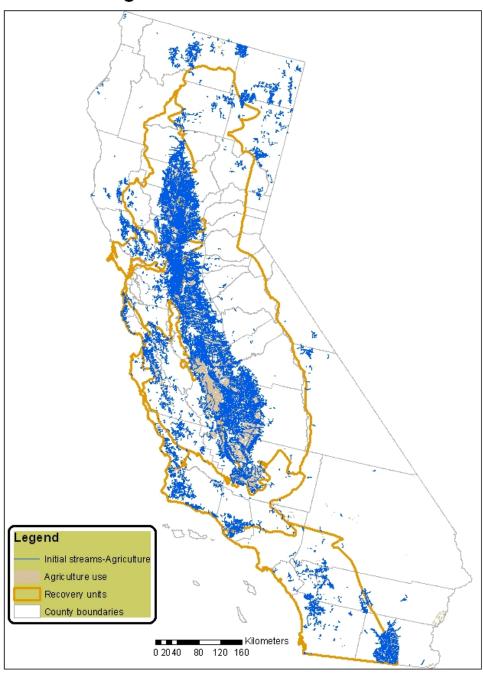
The dilution model traverses downstream from each stream segment within the initial area of concern. At each downstream node, the threshold PCA is compared to the aggregate cumulative PCA. If the cumulative PCA exceeds the threshold then the stream segment is included in the downstream extent. The model continues traversing downstream until the cumulative PCA no longer exceeds the threshold.

In order to determine the extent of the action area in lotic (flowing) aquatic habitats, the agricultural and orchard uses resulting in the greatest ratios of the RQ to the LOC for any endpoint for aquatic organisms is used to determine the distance downstream for concentrations to be diluted below levels that would be of concern (i.e. result in RQs above the LOC). For this assessment, the greatest ratio for an agricultural use is 5665, for indirect effects to the CRLF through acute effects to aquatic invertebrates exposed to diazinon in runoff from applications to lettuce. For an orchard crop, the greatest ratio is 1489, for indirect effects to the CRLF through acute effects to aquatic invertebrates exposed to diazinon in runoff from a single dormant season application of diazinon to almonds. The areas indirectly affected by the federal action due to runoff of diazinon to aquatic habitats are depicted in **Figures K.3 and K.4**. The total number of kilometers of stream miles within the action area that are at levels of concern are defined in **Table K.3**.

Table K.3. Quantitative results of spatial analysis of lotic aquatic action area relevant to diazinon.

Measure	Distance (km)			
	Agricultural Areas	Orchard Areas		
Total Streams in CA	332,962	332,962		
Streams within initial area of concern	57,087	11,945		
Downstream distance added	20,027	3,522		
Streams in aquatic action area	77,114	15,467		

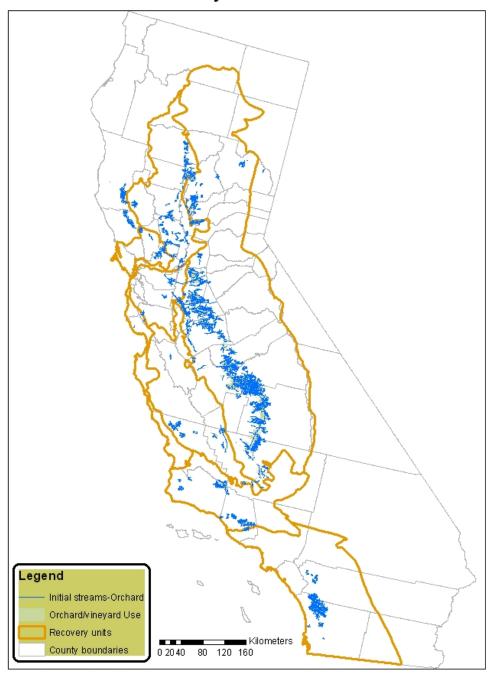
## Diazinon Agriculture - Initial Area of Concern



Compiled from California County boundaries (ESRI, 2002), USDA National Agriculture Statistical Service (NASS, 2002) Gap Analysis Program Orchard/ Vineyard Landcover (GAP) National Land Cover Database (NLCD) (MRLC, 2001) Map created by US Erwironmental Protection Agency, Office of Pesticides Programs, Erwironmental Fate and Effects Division. June XX, 2007. Projection: Albers Equal Area Conic USGS, North American Datum of 1983 (NAD 1983)

Figure K.3. Miles of streams at levels of concern resulting from diazinon applications of diazinon to agricultural uses.

## Diazinon Orchard/vineyard - Initial Area of Concern



Compiled from California County boundaries (ESRI, 2002), USDA National Agriculture Statistical Service (NASS, 2002) Gap Analysis Program Orchard/ Vineyard Landcover (GAP) National Land Cover Database (NLCD) (MRLC, 2001) Map created by US Erwironmental Protection Agency, Office of Pedicides Programs, Erwironmental Fate and Effects Division. June XX, 2007. Projection: Albers Equal Area Conic USGS, North American Datum of 1983 (NAD 1983)

Figure K.4. Miles of streams at levels of concern resulting from diazinon applications of diazinon to orchard uses.

When considering the terrestrial habitats of the CRLF, spray drift from use sites onto non-target areas could potentially result in exposures of the CRLF, its prey and its habitat to diazinon. Therefore, it is necessary to estimate the distance from the application site where spray drift exposures do not result in LOC exceedances for organisms within the terrestrial habitat.

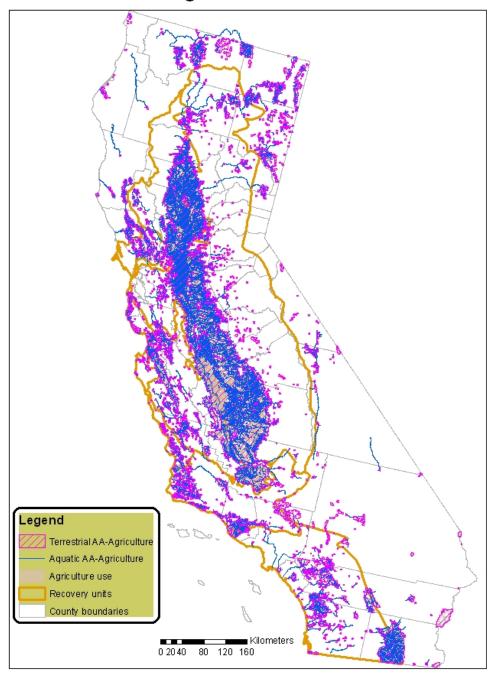
To account for this, first, the diazinon application rate which does not result in an LOC exceedance is calculated for each terrestrial taxa of concern. The lowest application rate for terrestrial organisms (0.0005 lbs a.i./A), which is relevant to direct effects to CRLF through acute, dose-based exposures, is selected for determining the concentration of diazinon in spray drift that will not result in an LOC exceedance. AgDRIFT and AGDISP are then used to estimate the distance from the edge of the field of an application site where the concentration will reach 0.0005 lbs a.i./A, indicating no LOC exceedances for terrestrial organisms. The input parameters and detailed results are described in section 3.2.3. For agricultural crops, the maximum distance from the edge of field is 11,617 feet (2.2 miles), which was estimated based on aerial application to lettuce at the maximum single application rate (2 lbs a.i./A). For orchard crops, the maximum distance from the edge of field required to result in no LOC exceedances is 933 feet, which was estimated based on airblast applications to almond crops at the maximum single application rate (3 lbs a.i./A).

To understand the area indirectly affected by the federal action due to spray drift from application areas, the landcovers where agricultural and orchard crops are grown are considered potential application areas. These areas are "buffered" using ArcGIS 9.1. In this process, the original landcover is modified by expanding the border of each polygon representing a field out to a designated distance, which in this case, is the distance estimated where diazinon in spray drift does not exceed any LOCs. This effectively expands the action area relevant to terrestrial habitats so that it includes the area directly affected by the federal action, and the area indirectly affected by the federal action. For diazinon use in agricultural areas, the agricultural use area is buffered using a distance of 11,617 feet (2.2 miles). For diazinon use in orchards, the orchard use area is buffered using a distance of 933 feet.

#### K.4. Determination of final action area for diazinon use

In order to define the final action areas relevant to uses of diazinon on agricultural and orchard crops, it is necessary to combine areas directly affected, as well as aquatic and terrestrial habitats indirectly affected by the federal action. This is done separately for agricultural and orchard uses using ArcGIS 9.1. Landcovers representing areas directly affected by diazinon applications are overlapped with indirectly affected aquatic habitats (determined by down stream dilution modeling) and with indirectly affected terrestrial habitats (determined by spray drift modeling). It is assumed that lentic aquatic habitats (e.g. ponds, pools, marshes) overlapping with the terrestrial areas are also indirectly affected by the federal action. The result is a final action area for diazinon uses in agricultural areas (**Figure K.5**) and a final action area for diazinon uses in orchards (**Figure K.6**).

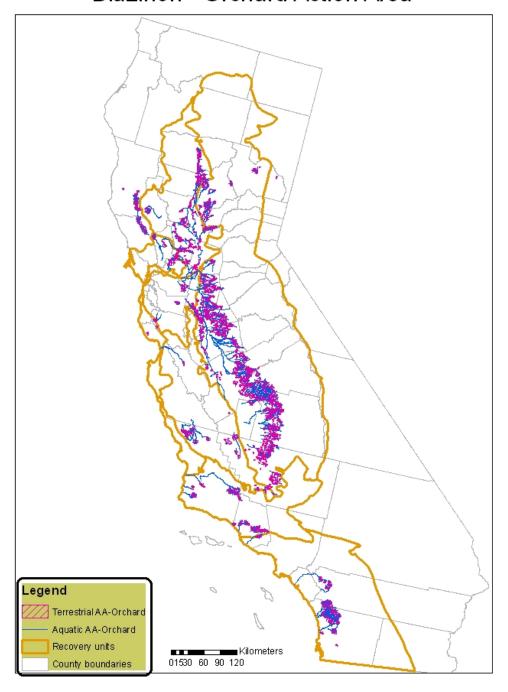
## Diazinon Agriculture - Action Area



Compiled from California County boundaries (ESRI, 2002), USDA National Agriculture Statistical Service (NASS, 2002) Gap Analysis Program Orchard/ Vineyard Landcover (GAP) National Land Cover Database (NLCD) (MRLC, 2001) Map created by US Environmental Protection Agency, Office of Pesticides Programs, Environmental Fate and Effects Division. June XX, 2007. Projection: Albers Equal Area Conic USGS, North American Datum of 1983 (NAD 1983)

Figure K.5. Final action area for agricultural uses of diazinon in California.

### Diazinon - Orchard Action Area



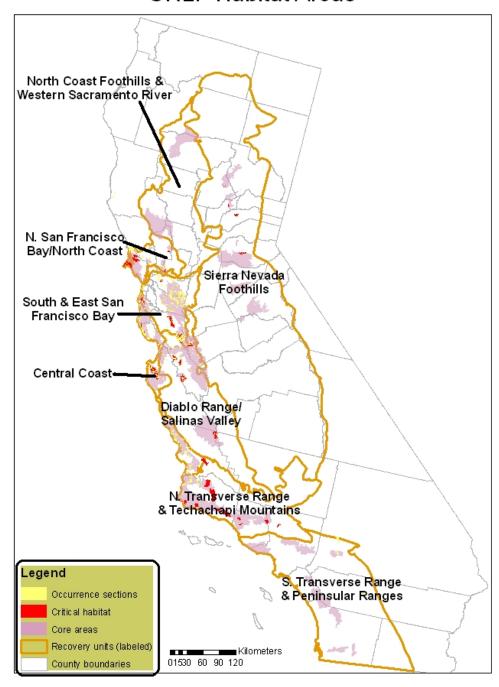
Compiled from California County boundaries (ESRI, 2002), USDA National Agriculture Statistical Service (NASS, 2002) Gap Analysis Program Orchard/ Vineyard Landcover (GAP) National Land Cover Database (NLCD) (MRLC, 2001) Map created by US Erwironmental Protection Agency, Office of Pesticides Programs, Erwironmental Fate and Effects Division. June XX, 2007. Projection: Albers Equal Area Conic USGS, North American Datum of 1983 (NAD 1983)

Figure K.6. Final action area for orchard uses of diazinon in California.

#### K.5. Determination of overlap between diazinon action area and CRLF habitat

There are three types of CRLF habitat areas considered in this assessment: Critical Habitat (CH); Core Areas; and California Natural Diversity Database (CNDDB) occurrence sections (EPA Region 9) (Figure K.7). Critical habitat areas were obtained from the U.S. Fish and Wildlife Service's (USFWS) final designation of critical habitat for the CRLF (USFWS 2006). Core areas were obtained from USFWS's Recovery Plan for the CRLF (USFWS 2002). The occurrence sections represent an EPA-derived subset of occurrences noted in the CNDDB. They are generalized by the Meridian Range and Township Section (MTRS) one square mile units so that individual habitat areas are obfuscated. As such, only occurrence section counts are provided and not the area potentially affected.

#### **CRLF Habitat Areas**



Compiled from California County boundaries (ESRI, 2002), USDA National Agriculture Statistical Service (NASS, 2002) Gap Analysis Program Orchard/ Vineyard Landcover (GAP) National Land Cover Database (NLCD) (MRLC, 2001) Map created by US Environmental Protection Agency, Office of Pesticides Programs, Environmental Fate and Effects Division. June 15, 2007. Projection: Albers Equal Area Conic USGS, North American Datum of 1983 (NAD 1983)

Figure K.7. Critical habitat, core areas and occurrences of CRLF.

In order to confirm that uses of diazinon have the potential to affect CRLF through direct applications to target areas and runoff and spray drift to non-target areas, it is necessary to determine whether or not the final action areas for agricultural and orchard uses of diazinon overlap with CRLF habitats. Spatial analysis using ArcGIS 9.1 indicates that lotic aquatic habitats within the CRLF core areas and critical habitats potentially contain concentrations of diazinon sufficient to exceed LOCs. In addition, terrestrial habitats (and potentially lentic aquatic habitats) of the final action areas for agricultural and orchard uses of diazinon overlap with the core areas, critical habitat and available occurrence data for CRLF (**Tables K.4 and K.5**). Thus, uses of diazinon on agricultural and orchard crops could result in exposures of diazinon to CRLF in aquatic and terrestrial habitats.

Table K.4. Overlap between CRLF habitat (core areas and critical habitat) and agricultural action area by recovery unit (RU#).

Measure	RU1	RU2	RU3	RU4	RU5	RU6	RU7	RU8	Total
CRLF habitat (km²)*	3654	2742	1323	3279	3650	5306	4917	3326	28,197
Overlapping area of CRLF habitat and terrestrial/lentic aquatic action area (km²)	201	158	111	535	1047	1056	1453	456	5017
% CRLF habitat overlapping with terrestrial/lentic aquatic Action Area	6%	6%	8%	16%	29%	20%	30%	14%	18%
# Occurrences overlapping with terrestrial/lentic aquatic action area	0	0	13	112	186	50	67	0	418

<sup>\*</sup>Area occupied by core areas and/or critical habitat.

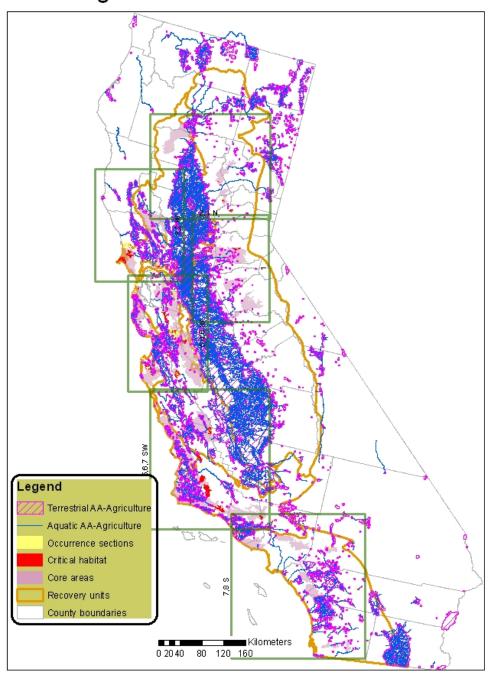
Table K.5. Overlap between CRLF habitat (core areas and critical habitat) and orchard action area by recovery unit (RU#).

Measure	RU1	RU2	RU3	RU4	RU5	RU6	RU7	RU8	Total
CRLF habitat (km <sup>2</sup> )*	3654	2742	1323	3279	3650	5306	4917	3316	28,197
Overlapping area of CRLF habitat and terrestrial/lentic aquatic action area (km²)	1.7	39	0	24	9	27	120	313	533.7
% CRLF habitat overlapping with terrestrial/lentic aquatic Action Area	0%	1%	0%	1%	0%	1%	2%	9%	2%
# Occurrences overlapping with terrestrial/lentic aquatic action area	0	0	0	11	1	1	8	0	0

<sup>\*</sup>Area occupied by core areas and/or critical habitat.

Maps the overlap of CRLF core areas, critical habitat and occurrences and the total California action areas for agricultural and orchard uses of diazinon are depicted in Figures K.8, K.9, K.16 and K.17. More detailed maps of the intersection of the diazinon action area for agricultural uses are depicted in Figures K.10-K.15. More detailed maps of the intersection of the diazinon action area for orchard uses are depicted in Figures K.18-K.23.

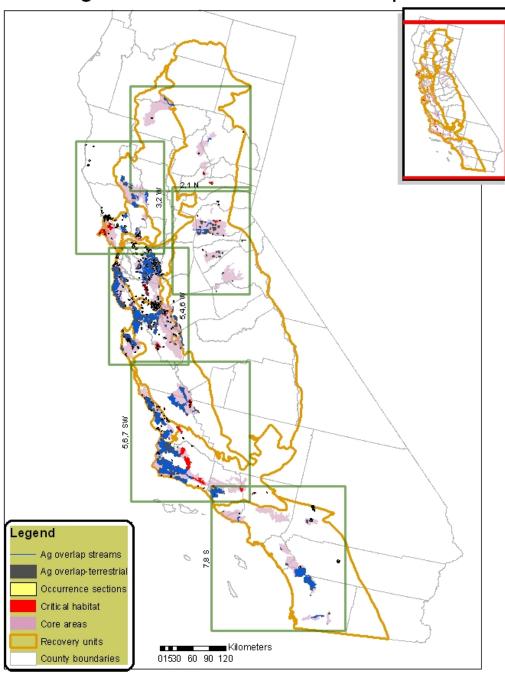
## Diazinon Agriculture - Action Area & CRLF Habitat



Compiled from California County boundaries (ESRI, 2002), USDA National Agriculture Statistical Service (NASS, 2002) Gap Analysis Program Orchard/ Vineyard Landcover (GAP) National Land Cover Database (NLCD) (MRLC, 2001) Map created by US Erwironmental Protection Agency, Office of Pesticides Programs, Erwironmental Fate and Effects Division. June XX, 2007. Projection: Albers Equal Area Conic USGS, North American Datum of 1983 (NAD 1983)

Figure K.8. Overlap of action area associated with agricultural uses of diazinon and CRLF habitat.

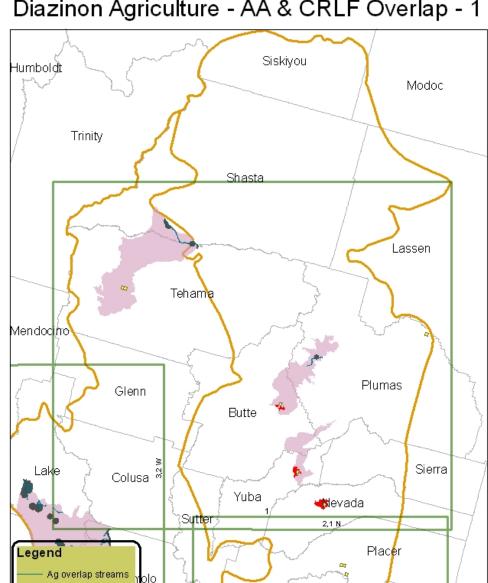
### Diazinon Agriculture - AA & CRLF Overlap Statewide



Compiled from California County boundaries (ESRI, 2002), USDA National Agriculture Statistical Service (NASS, 2002) Gap Analysis Program Orchard/ Vineyard Landcover (GAP) National Land Cover Database (NLCD) (MRLC, 2001)

Map created by US Erwironmental Protection Agency, Office of Pesticides Programs, Environmental Fate and Effects Division. June XX, 2007. Projection: Albers Equal Area Conic USGS, North American Datum of 1983 (NAD 1983)

Figure K.9. Overlap of action area associated with agricultural uses of diazinon and CRLF habitat. Only areas where action area overlaps with CRLF areas are depicted. Sections depicted by green boxes are magnified in Figures K.10-K.15.



Diazinon Agriculture - AA & CRLF Overlap - 1

Ag overlap-terrestrial Occurence sections Critical habitat Core areas

Recovery units

County boundaries

Map created by US Environmental Protection Agency, Office of Pesticides Programs, Environmental Fate and Effects Division. June XX, 2007. Projection: Albers Equal Area Conic USGS, North American Datum of 1983 (NAD 1983)

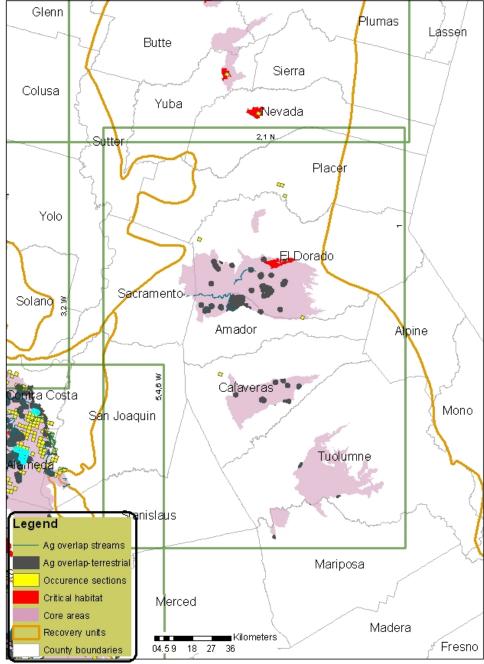
Alpine

Figure K.10. Detailed map of overlap between action area for agricultural uses of diazinon and CRLF core areas and critical habitat.

Sacramento

0 510 20

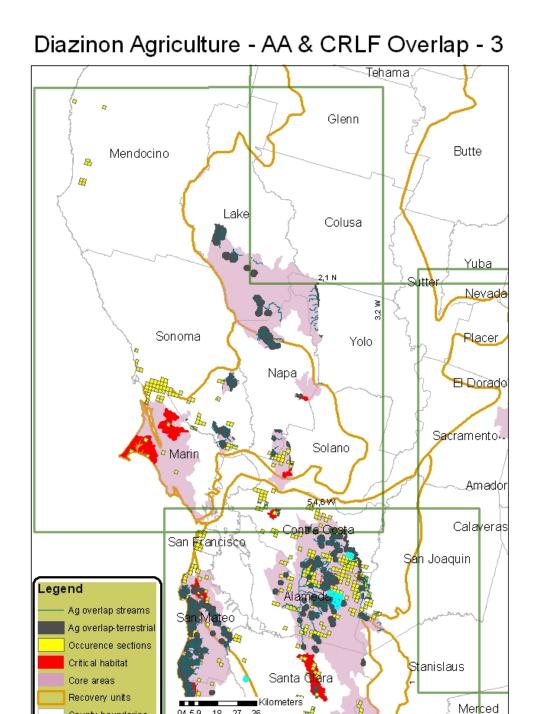
### Diazinon Agriculture - AA & CRLF Overlap - 2 Glenn Plumas



Compiled from California County boundaries (ESRI, 2002), USDA National Agriculture Statistical Service (NASS, 2002) Gap Analysis Program Orchard/ Vineyard Landcover (GAP) National Land Cover Database (NLCD) (MRLC, 2001)

Map created by US Environmental Protection Agency, Office of Pesticides Programs, Environmental Fate and Effects Division. June XX, 2007. Projection: Albers Equal Area Conic USGS, North American Datum of 1983 (NAD 1983)

Figure K.11. Detailed map of overlap between action area for agricultural uses of diazinon and CRLF core areas and critical habitat.

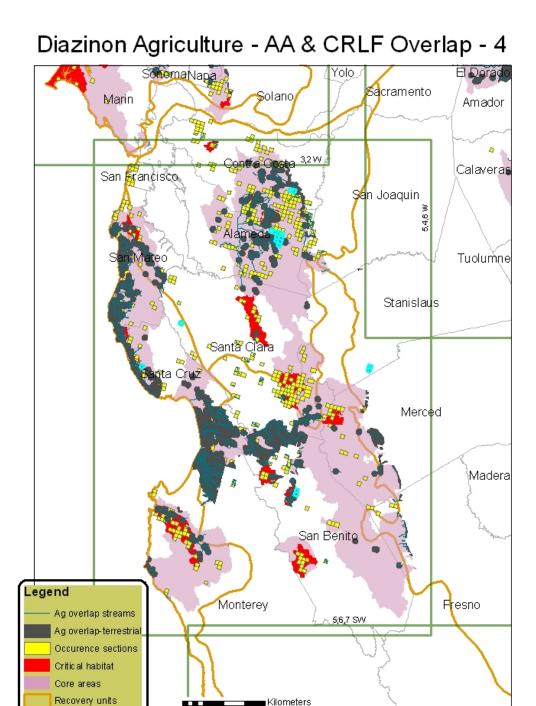


County boundaries

Map created by US Environmental Protection Agency, Office of Pesticides Programs, Environmental Fate and Effects Division. June XX, 2007. Projection: Albers Equal Area Conic USGS, North American Datum of 1983 (NAD 1983)

Figure K.12. Detailed map of overlap between action area for agricultural uses of diazinon and CRLF core areas and critical habitat.

18



County boundaries

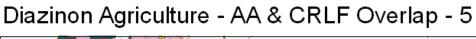
04.59

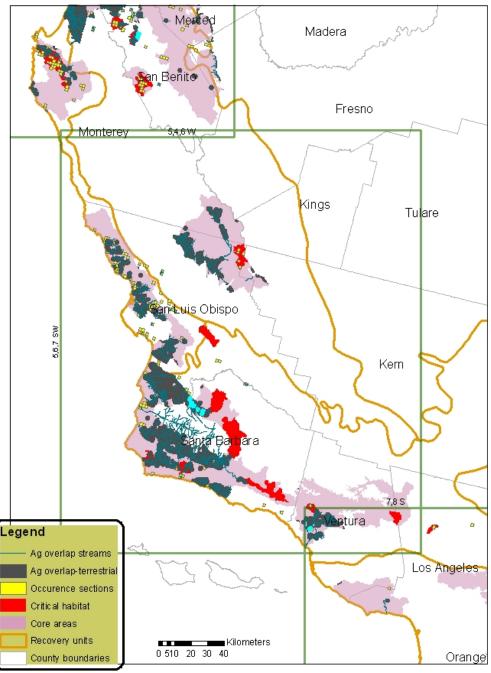
18 27

Map created by US Erwironmental Protection Agency, Office of Pesticides Programs, Environmental Fate and Effects Division. June XX, 2007. Projection: Albers Equal Area Conic USGS, North American Datum of 1983 (NAD 1983)

Kings

Figure K.13. Detailed map of overlap between action area for agricultural uses of diazinon and CRLF core areas and critical habitat.

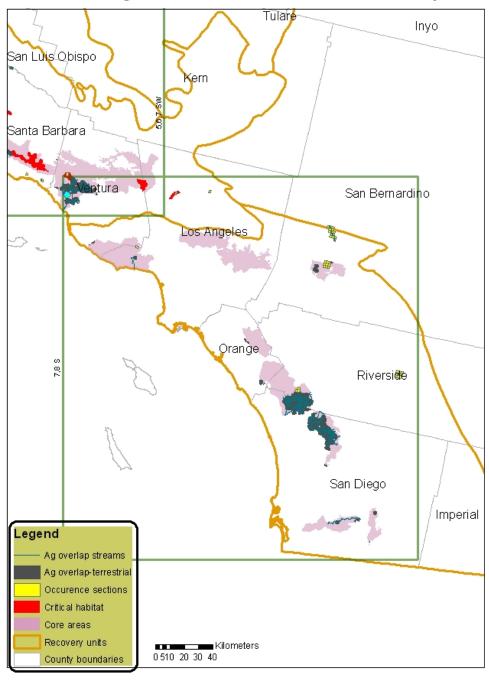




Map created by US Environmental Protection Agency, Office of Pesticides Programs, Environmental Fate and Effects Division. June XX, 2007. Projection: Albers Equal Area Conic USGS, North American Datum of 1983 (NAD 1983)

Figure K.14. Detailed map of overlap between action area for agricultural uses of diazinon and CRLF core areas and critical habitat.

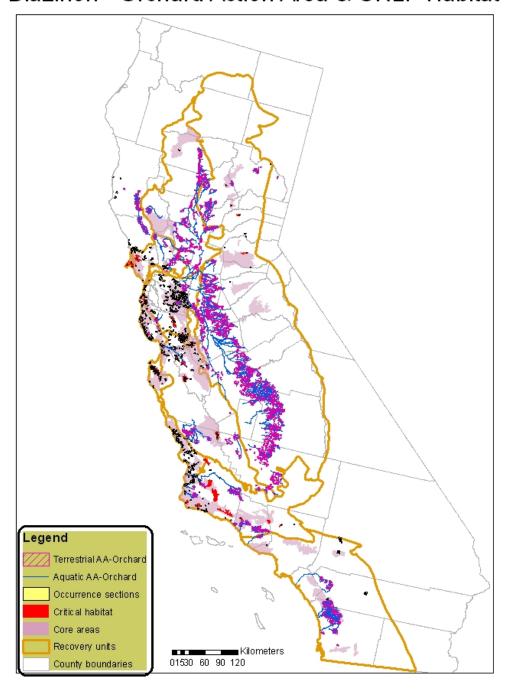




Map created by US Environmental Protection Agency, Office of Pesticides Programs, Environmental Fate and Effects Division. June XX, 2007. Projection: Albers Equal Area Conic USGS, North American Datum of 1983 (NAD 1983)

Figure K.15. Detailed map of overlap between action area for agricultural uses of diazinon and CRLF core areas and critical habitat.

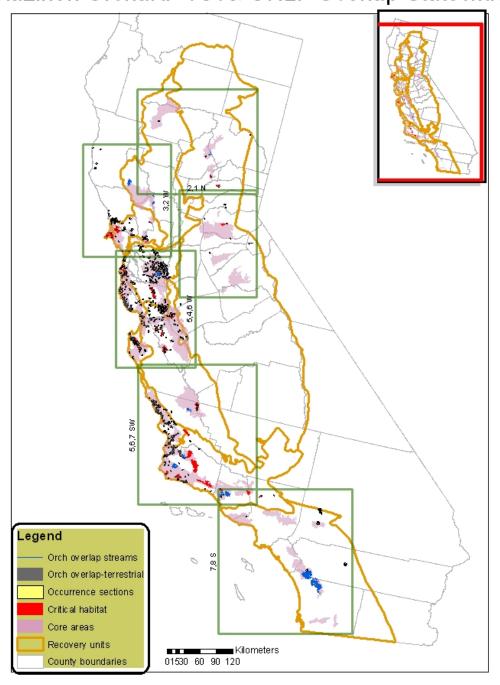
Diazinon - Orchard Action Area & CRLF Habitat



Map created by US Erwironmental Protection Agency, Office of Pesticides Programs, Erwironmental Fate and Effects Division. June XX, 2007. Projection: Albers Equal Area Conic USGS, North American Datum of 1983 (NAD 1983)

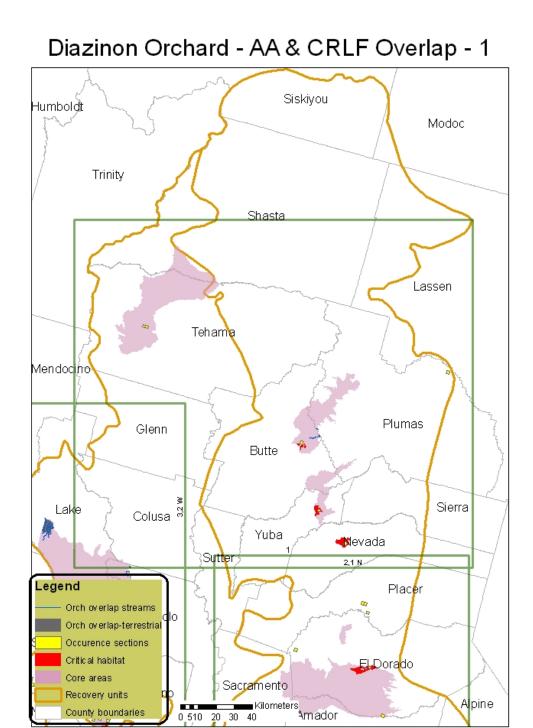
Figure K.16. Overlap of action area associated with orchard uses of diazinon and CRLF habitat.

### Diazinon Orchard - AA & CRLF Overlap Statewide



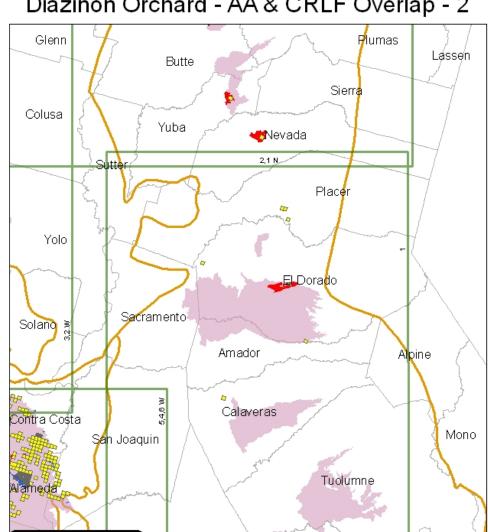
Compiled from California County boundaries (ESRI, 2002), USDA National Agriculture Statistical Service (NASS, 2002) Gap Analysis Program Orchard/ Vineyard Landcover (GAP) National Land Cover Database (NLCD) (MRLC, 2001) Map created by US Environmental Protection Agency, Office of Pesticides Programs, Environmental Fate and Effects Division. June XX, 2007. Projection: Albers Equal Area Conic USGS, North American Datum of 1983 (NAD 1983)

Figure K.17. Overlap of action area associated with orchard uses of diazinon and CRLF habitat. Only areas where action area overlaps with CRLF areas are depicted. Sections depicted by green boxes are magnified in Figures K.18-K.23.



Map created by US Environmental Protection Agency, Office of Pesticides Programs, Environmental Fate and Effects Division. June XX, 2007. Projection: Albers Equal Area Conic USGS, North American Datum of 1983 (NAD 1983)

Figure K.18. Detailed map of overlap between action area for orchard uses of diazinon and CRLF core areas and critical habitat.



### Diazinon Orchard - AA & CRLF Overlap - 2

Compiled from California County boundaries (ESRI, 2002), USDA National Agriculture Statistical Service (NASS, 2002) Gap Analysis Program Orchard/ Vineyard Landcover (GAP) National Land Cover Database (NLCD) (MRLC, 2001)

Orch overlap streams Orch overlap-terrestrial

Occurence sections Critical habitat

County boundaries

Core areas Recovery units

Legend

islaus

Merced

0 4 8 16 24 32

Map created by US Environmental Protection Agency, Office of Pesticides Programs, Environmental Fate and Effects Division. June XX, 2007. Projection: Albers Equal Area Conic USGS, North American Datum of 1983 (NAD 1983)

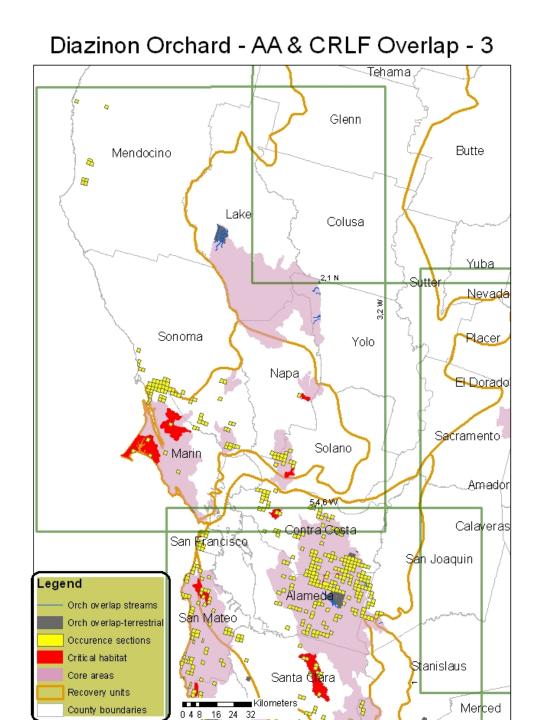
Madera

Fresno

Mariposa

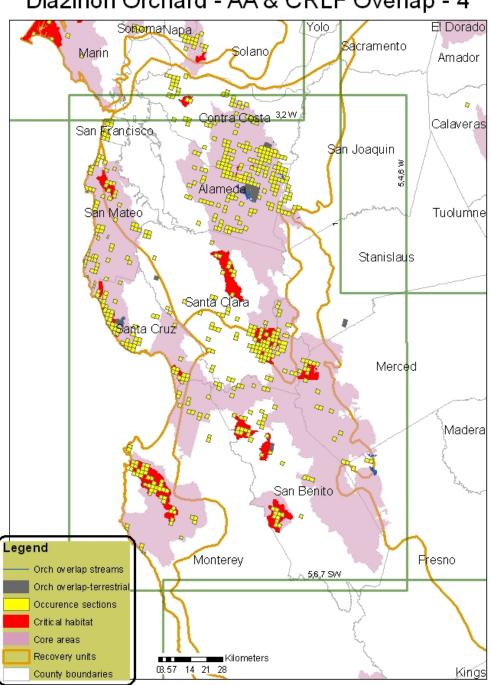
Figure K.19. Detailed map of overlap between action area for orchard uses of diazinon and CRLF core areas and critical habitat.

∎Kilometers



Map created by US Erwironmental Protection Agency, Office of Pesticides Programs, Environmental Fate and Effects Division. June XX, 2007. Projection: Albers Equal Area Conic USGS, North American Datum of 1983 (NAD 1983)

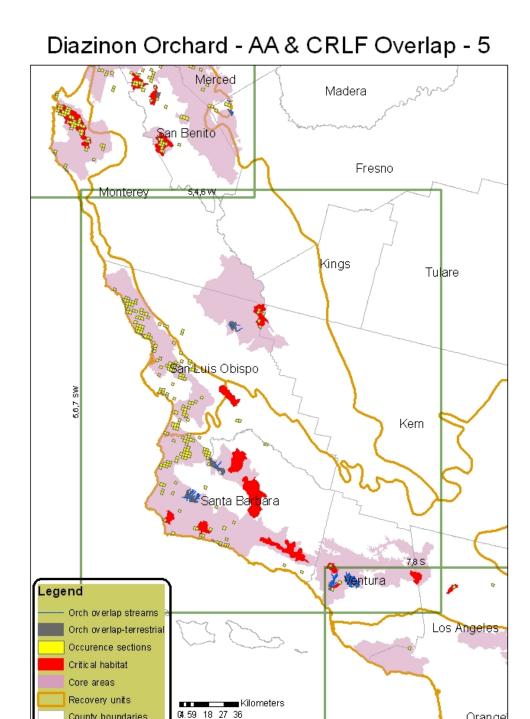
Figure K.20. Detailed map of overlap between action area for orchard uses of diazinon and CRLF core areas and critical habitat.



Diazinon Orchard - AA & CRLF Overlap - 4

Map created by US Erwironmental Protection Agency, Office of Pesticides Programs, Environmental Fate and Effects Division. June XX, 2007. Projection: Albers Equal Area Conic USGS, North American Datum of 1983 (NAD 1983)

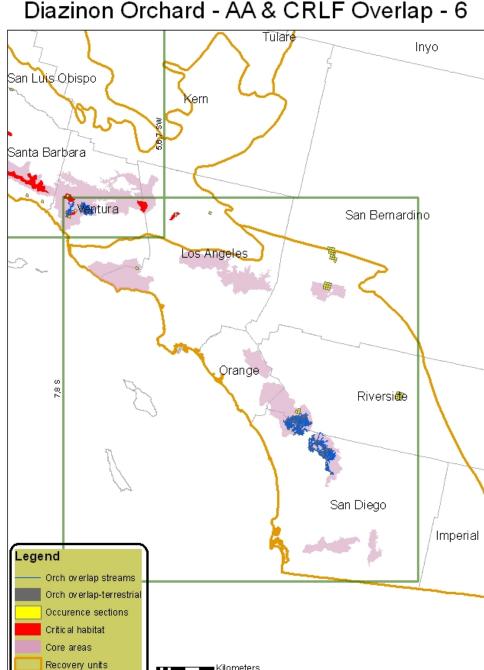
Figure K.21. Detailed map of overlap between action area for orchard uses of diazinon and CRLF core areas and critical habitat.



County boundaries

Map created by US Erwironmental Protection Agency, Office of Pesticides Programs, Erwironmental Fate and Effects Division. June XX, 2007. Projection: Albers Equal Area Conic USGS, North American Datum of 1983 (NAD 1983)

Figure K.22. Detailed map of overlap between action area for orchard uses of diazinon and CRLF core areas and critical habitat.



Diazinon Orchard - AA & CRLF Overlap - 6

County boundaries

Map created by US Erwironmental Protection Agency, Office of Pesticides Programs, Erwironmental Fate and Effects Division. June XX, 2007. Projection: Albers Equal Area Conic USGS, North American Datum of 1983 (NAD 1983)

Figure K.23. Detailed map of overlap between action area for orchard uses of diazinon and CRLF core areas and critical habitat.

∎Kilometers

0 510 20 30 40

#### K.6. Limitations and Constraints of Tabular and Geospatial Sources

The geographic data sets used in this analysis are limited with respect to their accuracy and timeliness. The NASS Census of Agriculture (NASS 2002) contains adjusted survey data collected prior to 2002. Small use sites, and minor uses (e.g., specialty crops) tend to be underrepresented in this dataset. The National Land Cover Dataset (NLCD 2001) represents the best comprehensive collection of national land use and land cover information for the United States representing a range of years from 1994 – 1998. Because the NLCD does not explicitly include a class to represent orchard and vineyard landcover, California Gap Analysis Project data (CaGAP 1998) were overlaid with the NCLD and used to identify these areas.

Hydrographic data are from the NHDPlus dataset (<a href="http://www.horizon-systems.com/nhdplus/">http://www.horizon-systems.com/nhdplus/</a>). NHDPlus contains the most current and accurate nationwide representation of hydrologic data. In some isolated instances, there are, however, errors in the data including missing or disconnected stream segments and incorrect assignment of flow direction. Spatial data describing the recovery zones and core areas are from the US Fish and Wildlife Service. The data depicting survey sections in which the species has been found in past surveys is from the California Natural Diversity Database (<a href="http://www.dfg.ca.gov/bdb/html/cnddb.html">http://www.dfg.ca.gov/bdb/html/cnddb.html</a>).

The relatively coarse spatial scale of these datasets precludes use of the data for highly localized studies, therefore, tabular information presented here is limited to the scale of individual Recovery Units. Additionally, some labeled uses are not possible to map precisely due to the lack of appropriate spatial data in NLCD on the location of these areas. To account for these uncertainties, the spatial analysis presented here is conservative, and may overestimate the areal extent of actual pesticide use in California.

#### APPENDIX L

#### PRODUCT FORMULATIONS CONTAINING MULTIPLE ACTIVE INGREDIENTS

The Agency does not routinely include, in its risk assessments, an evaluation of mixtures of active ingredients, either those mixtures of multiple active ingredients in product formulations or those in the applicator's tank. In the case of the product formulations of active ingredients (that is, a registered product containing more than one active ingredient), each active ingredient is subject to an individual risk assessment for regulatory decision regarding the active ingredient on a particular use site. If effects data are available for a formulated product containing more than one active ingredient, they may be used qualitatively or quantitatively<sup>2</sup>.

There are no product LD50 values, with associated 95% Confidence Intervals (CIs) available for diazinon.

As discussed in USEPA (2000) a quantitative component-based evaluation of mixture toxicity requires data of appropriate quality for each component of a mixture. In this mixture evaluation an LD50 with associated 95% CI is needed for the formulated product. The same quality of data is also required for each component of the mixture. Given that the formulated products for diazinon do not have LD50 data available it is not possible to undertake a quantitative or qualitative analysis for potential interactive effects. However, because the active ingredients are not expected to have similar mechanisms of action, metabolites, or toxicokinetic behavior, it is reasonable to conclude that an assumption of dose-addition would be inappropriate. Consequently, an assessment based on the toxicity of diazinon is the only reasonable approach that employs the available data to address the potential acute risks of the formulated products.

<sup>&</sup>lt;sup>2</sup> Overview of the Ecological Risk Assessment Process in the Office of Pesticide Programs, Environmental Protection Agency (January 2004) (Overview Document).

<sup>&</sup>lt;sup>3</sup> Memorandum to Office of Prevention, Pesticides and Toxic Substance, US EPA conveying an evaluation by the U.S. Fish and Wildlife Service and National Marine Fisheries Service of an approach to assessing the ecological risks of pesticide products (January 2004).

### **Appendix L. Pesticide Products Formulated with Diazinon and Other Pesticide Active Ingredients**

### **DIAZINON PRODUCTS** 4

			PRO	DUCT	ADJUSTED F INGREI	
PRODUCT/TRADE NAME	EPA Reg.No.	% Diazinon	LD 50 (mg/kg)	CI (mg/kg)	LD50 (mg/kg)	CI (mg/kg)
Co-ral plus insecticide cattle ear tag	11556-123	20	No Data	No Data	No Data	No Data
Farnam turbo	270-260	18	No Data	No Data	No Data	No Data
KMG-Bernuth	61483-92	40	No Data	No Data	No Data	No Data
Warrior insecticide cattle ear tag	39039-6	30	No Data	No Data	No Data	No Data

<sup>.</sup> 

<sup>&</sup>lt;sup>4</sup> From registrant submitted data to support registration. Compiled by Office of Pesticide Programs Health Effects Division.